



Full wwPDB NMR Structure Validation Report ⓘ

Apr 26, 2016 – 03:38 PM BST

PDB ID : 1MSH
Title : SOLUTION STRUCTURE OF GRO(SLASH)MELANOMA GROWTH
STIMULATORY ACTIVITY DETERMINED BY 1H NMR SPEC-
TROSCOPY
Authors : Kim, K.-S.; Clark-Lewis, I.; Sykes, B.D.
Deposited on : 1995-01-25

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/NMRValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

Cyrange	:	NOT EXECUTED
NmrClust	:	NOT EXECUTED
MolProbity	:	NOT EXECUTED
Mogul	:	unknown
Percentile statistics	:	NOT EXECUTED
RCI	:	NOT EXECUTED
PANAV	:	NOT EXECUTED
ShiftChecker	:	NOT EXECUTED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20027457

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

There are no percentiles available for this entry.

The sequence quality summary graphics cannot be shown.

2 Ensemble composition and analysis ⓘ

This entry contains 30 models. The atoms present in the NMR models are not consistent. Some calculations may have failed as a result. All residues are included in the validation scores.

Cyrange was unable to find well-defined residues.

Error message: Cyrange did not run

NmrClust was unable to cluster the ensemble.

Error message: NmrClust did not run

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 2222 atoms, of which 1144 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY.

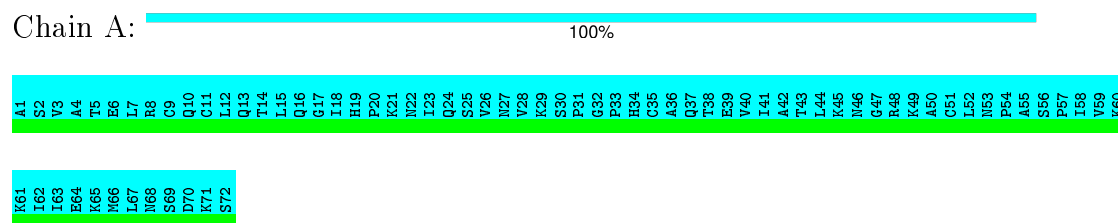
Mol	Chain	Residues	Atoms						Trace
1	A	72	Total	C	H	N	O	S	0
			1111	333	572	100	101	5	
1	B	72	Total	C	H	N	O	S	0
			1111	333	572	100	101	5	

4 Residue-property plots

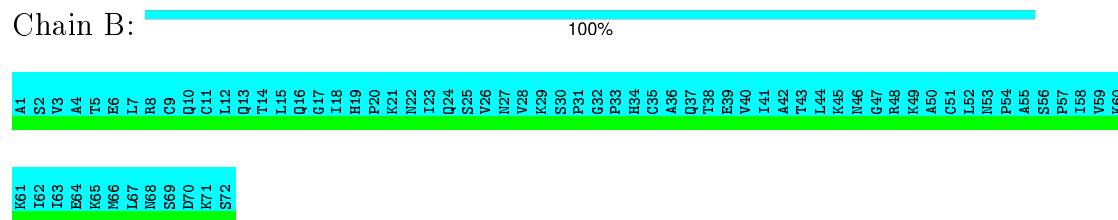
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

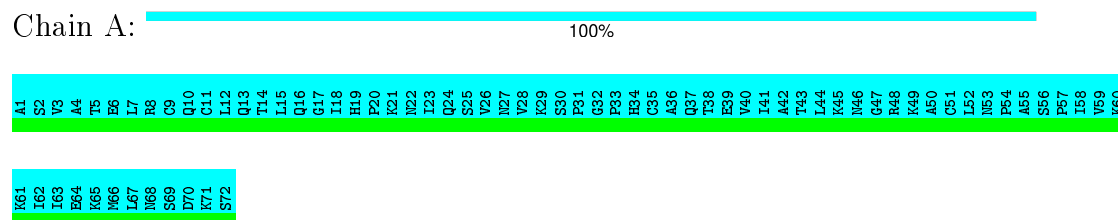


4.2 Scores per residue for each member of the ensemble

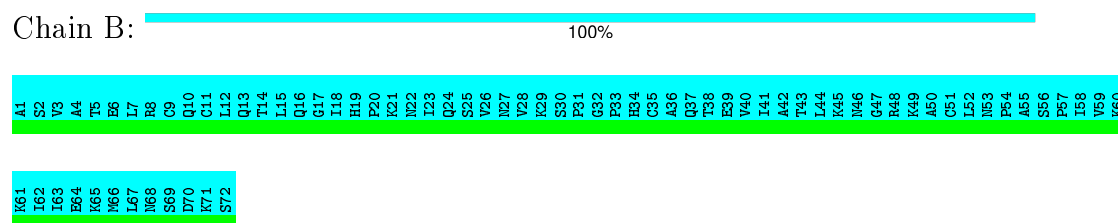
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

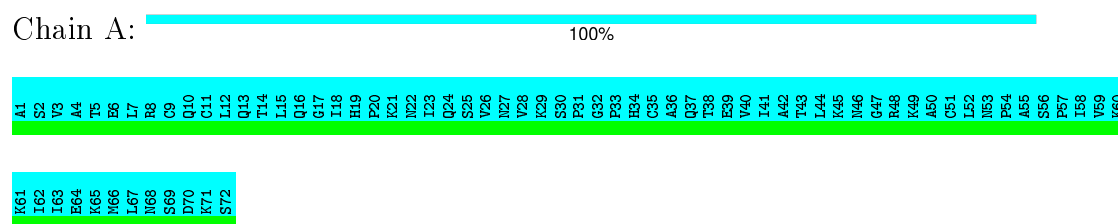


- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

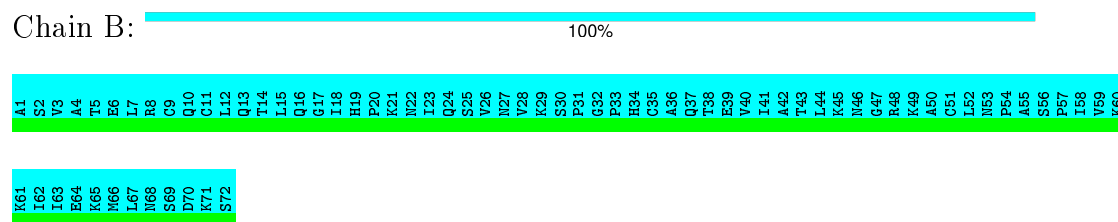


4.2.2 Score per residue for model 2

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

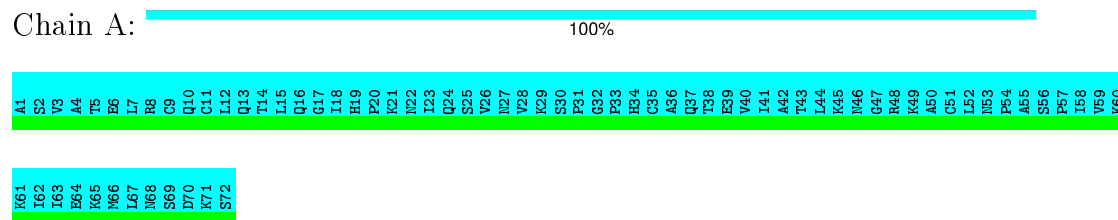


- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

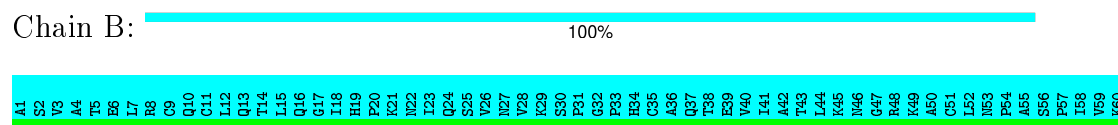


4.2.3 Score per residue for model 3

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.4 Score per residue for model 4

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.5 Score per residue for model 5

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.6 Score per residue for model 6

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1	S2	V3	A4	T5	E6	L7	R8	C9	Q10	C11	L12	Q13	T14	L15	Q16	G17	I18	H19	P20	K21	N22	I23	Q24	S25	V26	N27	V28	K29	S30	P31	G32	P33	H34	C35	A36	Q37	T38	E39	V40	I41	A42	T43	L44	K45	N46	G47	R48	K49	A50	C51	L52	N53	P54	A55	S56	P57	I58	V59	K60
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

K61	I62	I63	E64	K65	M66	L67	M68	S69	D70	K71	S72
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- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1	S2	V3	A4	T5	E6	L7	R8	C9	Q10	C11	L12	Q13	T14	L15	Q16	G17	I18	H19	P20	K21	N22	I23	Q24	S25	V26	N27	V28	K29	S30	P31	G32	P33	H34	C35	A36	Q37	T38	E39	V40	I41	A42	T43	L44	K45	N46	G47	R48	K49	A50	C51	L52	N53	P54	A55	S56	P57	I58	V59	K60
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

K61	I62	I63	E64	K65	M66	L67	M68	S69	D70	K71	S72
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4.2.7 Score per residue for model 7

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1	S2	V3	A4	T5	E6	L7	R8	C9	Q10	C11	L12	Q13	T14	L15	Q16	G17	I18	H19	P20	K21	N22	I23	Q24	S25	V26	N27	V28	K29	S30	P31	G32	P33	H34	C35	A36	Q37	T38	E39	V40	I41	A42	T43	L44	K45	N46	G47	R48	K49	A50	C51	L52	N53	P54	A55	S56	P57	I58	V59	K60
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

K61	I62	I63	E64	K65	M66	L67	M68	S69	D70	K71	S72
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- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1	S2	V3	A4	T5	E6	L7	R8	C9	Q10	C11	L12	Q13	T14	L15	Q16	G17	I18	H19	P20	K21	N22	I23	Q24	S25	V26	N27	V28	K29	S30	P31	G32	P33	H34	C35	A36	Q37	T38	E39	V40	I41	A42	T43	L44	K45	N46	G47	R48	K49	A50	C51	L52	N53	P54	A55	S56	P57	I58	V59	K60
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

K61	I62	I63	E64	K65	M66	L67	M68	S69	D70	K71	S72
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4.2.8 Score per residue for model 8

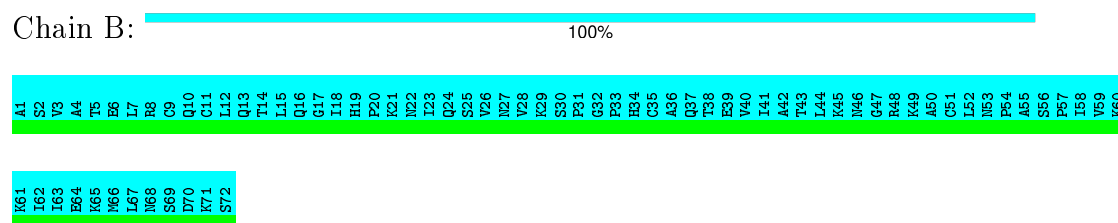
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1	S2	V3	A4	T5	E6	L7	R8	C9	Q10	C11	L12	Q13	T14	L15	Q16	G17	I18	H19	P20	K21	N22	I23	Q24	S25	V26	N27	V28	K29	S30	P31	G32	P33	H34	C35	A36	Q37	T38	E39	V40	I41	A42	T43	L44	K45	N46	G47	R48	K49	A50	C51	L52	N53	P54	A55	S56	P57	I58	V59	K60
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

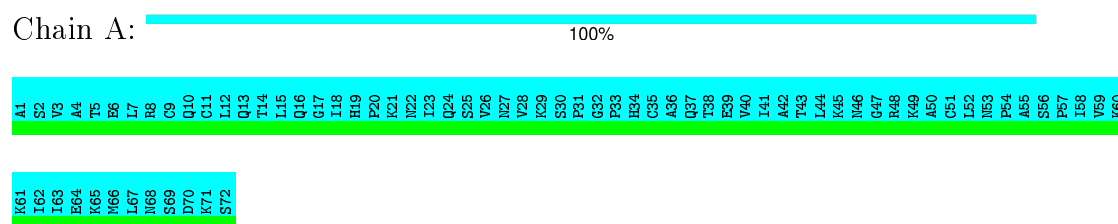
K61	I62	I63	E64	K65	M66	L67	M68	S69	D70	K71	S72
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- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

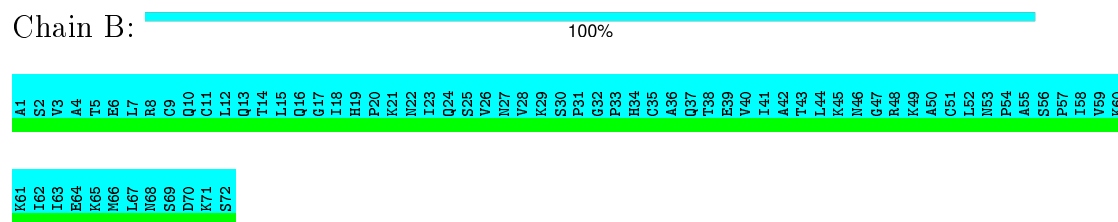


4.2.9 Score per residue for model 9

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

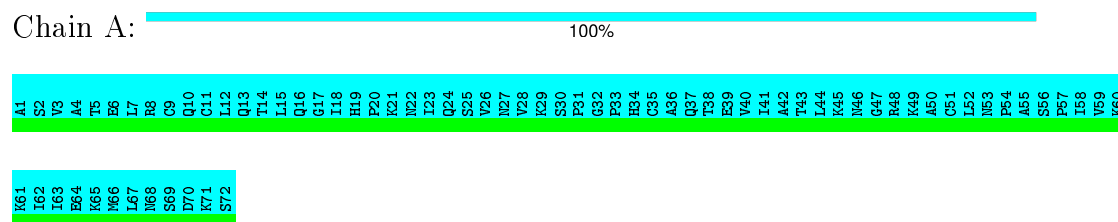


- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

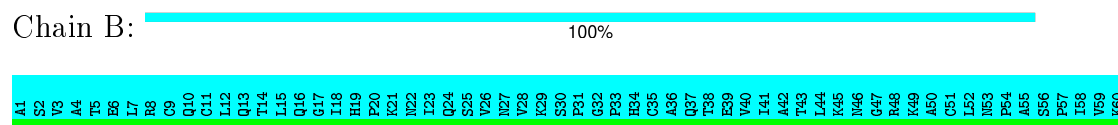


4.2.10 Score per residue for model 10

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.11 Score per residue for model 11

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.12 Score per residue for model 12

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

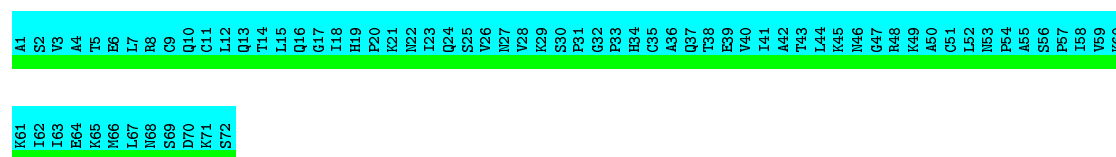
A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.13 Score per residue for model 13

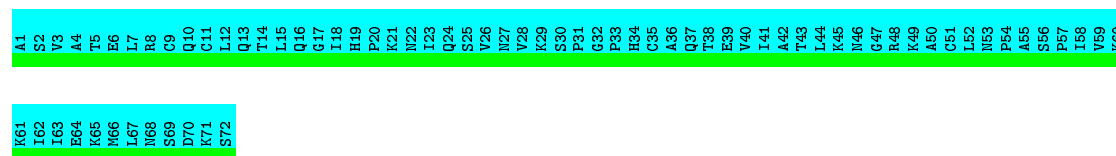
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

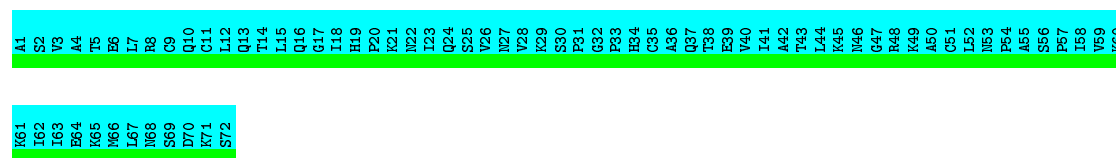
Chain B: 100%



4.2.14 Score per residue for model 14

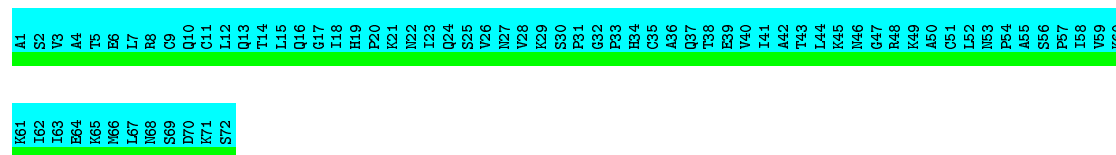
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A: 100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

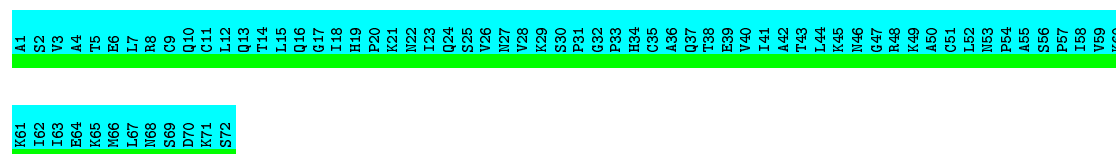
Chain B: 100%



4.2.15 Score per residue for model 15

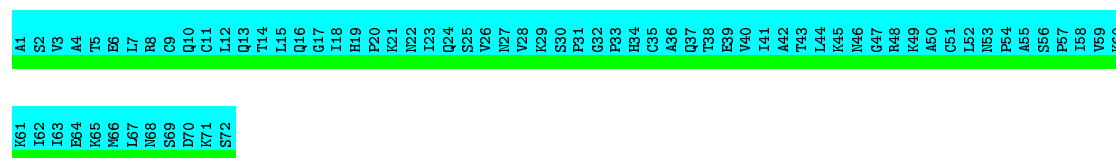
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

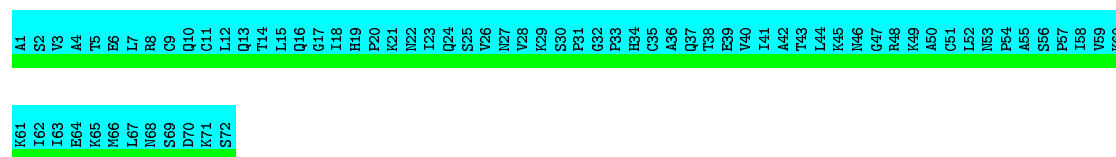
Chain B: 100%



4.2.16 Score per residue for model 16

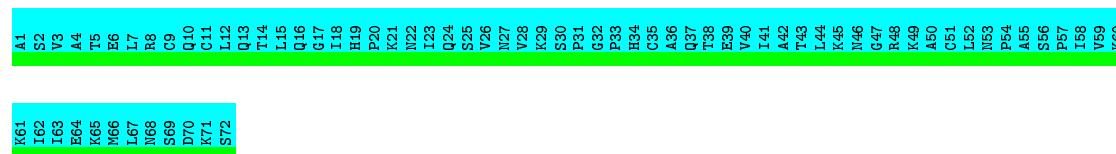
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

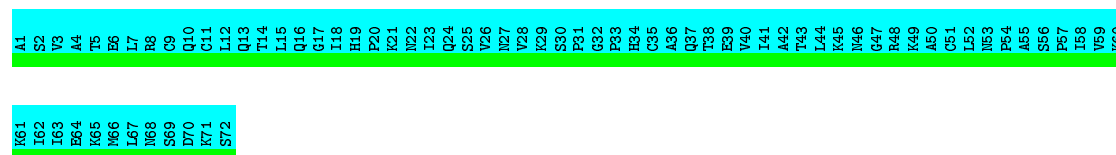
Chain B: 100%



4.2.17 Score per residue for model 17

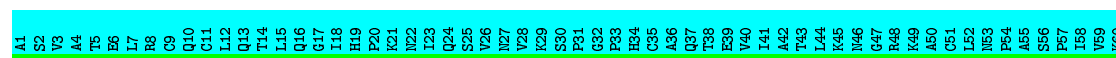
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A: 100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B: 100%



K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.18 Score per residue for model 18

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.19 Score per residue for model 19

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.20 Score per residue for model 20

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

100%

K61	I62	I63	E64	K65	M66	L67	N68	S69	D70	K71	S72
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

- 100%

K61	I62	I63	E64	K65	M66	L67	N68	S69	D70	K71	S72
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100%

K61
I62
I63
E64
K65
M66
L67
N68
S69
D70
K71
S72

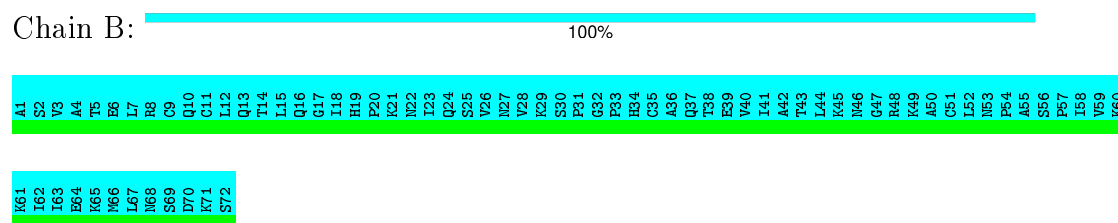
- 100%

K61	I62	I63	E64	K65	M66	L67	N68	S69	D70	K71	S72
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100%

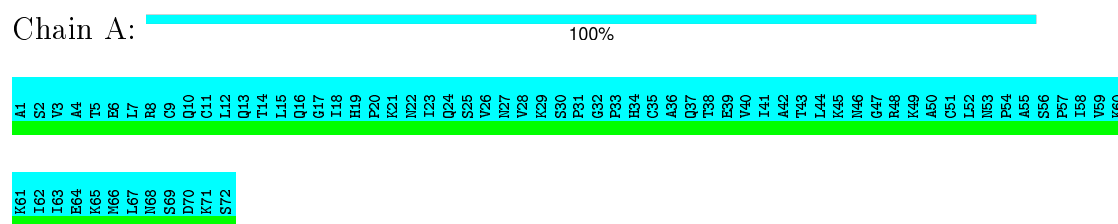
K61	I62	I63	E64	K65	M66	L67	N68	S69	D70	K71	S72
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

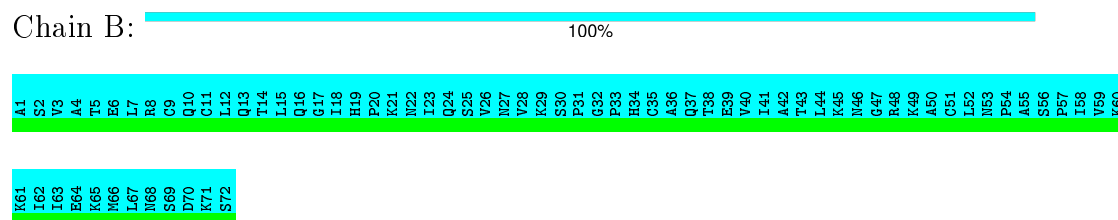


4.2.23 Score per residue for model 23

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

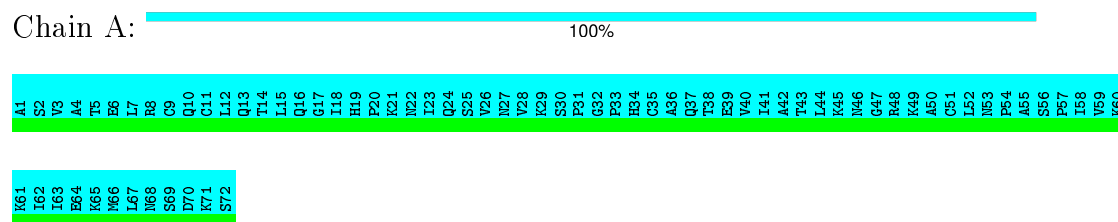


- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

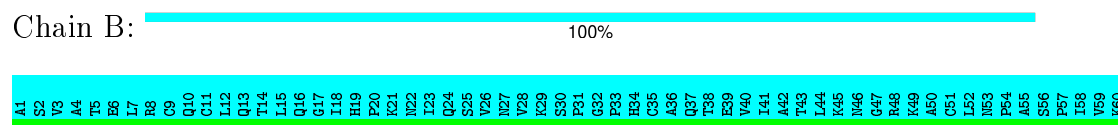


4.2.24 Score per residue for model 24

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY



K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.25 Score per residue for model 25

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.26 Score per residue for model 26

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%

A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B:  100%

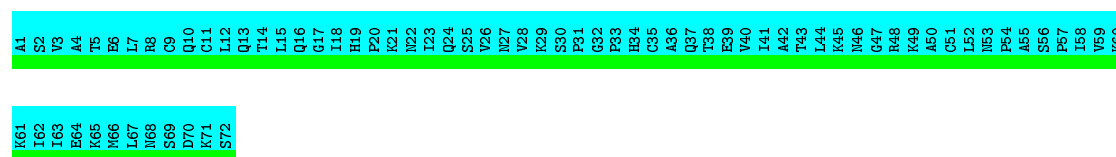
A1
S2
V3
A4
T5
E6
L7
R8
C9
Q10
C11
L12
Q13
T14
L15
Q16
G17
I18
H19
P20
K21
N22
I23
Q24
S25
V26
N27
V28
K29
S30
P31
G32
P33
H34
C35
A36
Q37
T38
E39
V40
I41
A42
T43
L44
K45
N46
G47
R48
K49
A50
C51
L52
N53
P54
A55
S56
P57
I58
V59
K60

K61
I62
I63
E64
K65
M66
L67
N68
D70
K71
S72

4.2.27 Score per residue for model 27

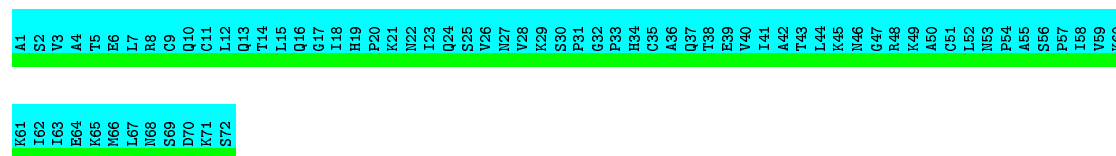
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

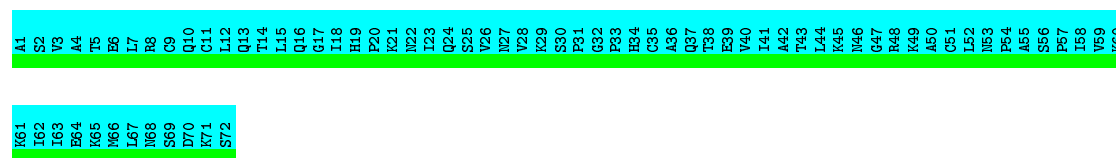
Chain B: 100%



4.2.28 Score per residue for model 28

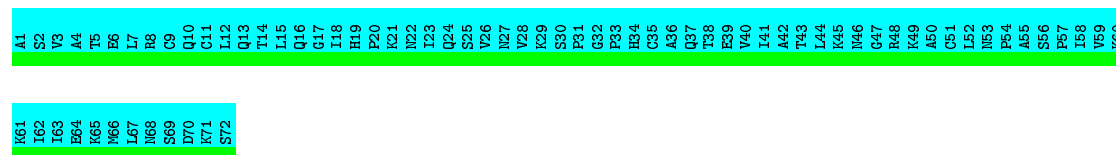
- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A: 100%



- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

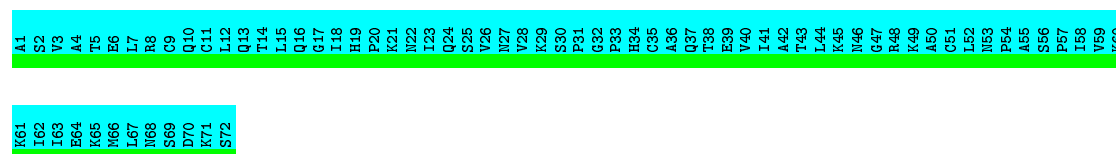
Chain B: 100%



4.2.29 Score per residue for model 29

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A:  100%



Chain B: 100%

[illegible]

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain A: 100%

[illegible]

- Molecule 1: HUMAN MELANOMA GROWTH STIMULATORY ACTIVITY

Chain B: 100%

[illegible]

5 Refinement protocol and experimental data overview

Of the ? calculated structures, 30 were deposited, based on the following criterion: ?.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
X-PLOR	refinement	

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

MolProbity was not executed - this section will have to be empty.

6.2 Too-close contacts [i](#)

MolProbity was not executed - this section will have to be empty.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

MolProbity was not executed - this section will have to be empty.

6.3.2 Protein sidechains [i](#)

MolProbity was not executed - this section will have to be empty.

6.3.3 RNA [i](#)

MolProbity was not executed - this section will have to be empty.

6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

MolProbity was not executed - this section will have to be empty.

6.5 Carbohydrates [i](#)

MolProbity was not executed - this section will have to be empty.

6.6 Ligand geometry [i](#)

MolProbity was not executed - this section will have to be empty.

6.7 Other polymers [i](#)

MolProbity was not executed - this section will have to be empty.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided