## **BIOINFORMATION**

## Supplementary material:

Ester

	v					
Table 1: Mutati	ons at catalytic tri	ad of NS2B-1	NS3 complex			
NS2B-NS3 co	mplex HIS 94	ASP 118	SER 176			
NS2B-NS3 $\Delta_1$	ALA	ALA	ALA			
NS2B-NS3 $\Delta_2$	ALA	ALA	CYS			
NS2B-NS3 $\Delta_3$	ALA	ASN	ALA			
NS2B-NS3 $\Delta_4$	ALA	ASN	CYS			
Table 2: Hydrog	gen bonds formed	before mutat	ion			
H-bond	Residue 1(B1)	Atom	Residue 2 (B2)	Atom	B1-B2 distance	(Å)
1	94 HIS	Ν	118 ASP	OD1	3.27	
2	94 HIS	Ν	118 ASP	OD2	3.28	
3	118 ASP	Ν	115 VAL	0	3.02	
4	118 ASP	Ν	114 SER	0	2.70	
5	179 SER	Ν	176 SER	0	3.19	
Table 3a: Hydro H-bonds R	ogen bonds forme Residue 1 (B1)	d after mutati Atom	on Residue 2 (B2)	Atom	B1-B2 distance (Å)	_
1	118 ASP	Ν	115 VAL	0	3.02	-
2	118 ASP	Ν	114 SER	0	2.70	
3	179 SER	Ν	176 SER	0	3.19	-
Table 3b: RMS	D values of the m	utated models	S			
Mutants	RMSD(Å)					
NS2B-NS3 $\Delta_1$	15.952					
NS2B-NS3 $\Delta_2$	4.706					
NS2B-NS3 $\Delta_3$	4.798					
NS2B-NS3 $\Delta_4$	7.929					
Table 4: Dockir	ng of the ligands (4	4-hydroxypar	nduratin A, Pandurati	n A and Est	er) with NS2B-NS3 co	mplex
Ligand		Binding Ener	rgy Number	r of	Inhibitory Constant	Interacting with catalytic triad
		(kcal/mol)	Hydrogen	bonds	(µM)	(His 94, Asp 118, Ser 176)
4-hydroxypanduratin A		-5.44	2		103.73	Yes
Panduratin A		-5.76	2		60.26	No

4

-4.27

Yes No

No

740.49