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Supporting Information

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Supporting Information

for

A fluorogenic peptide related to the processing site of
human SARS corona virus S-protein: Kinetic evaluation
and NMR structure elucidation

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Figure S1. A) Scheme for synthesis of QSARS-4⁷⁵⁴⁻⁷⁶⁶ peptide B) Cartoon presentation of fluorescence quenching; C) Chemical structures.

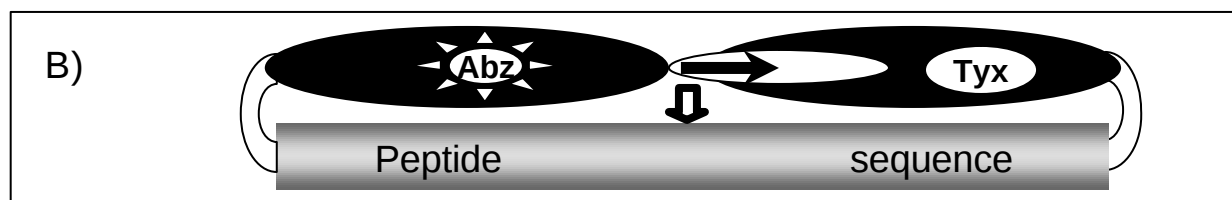
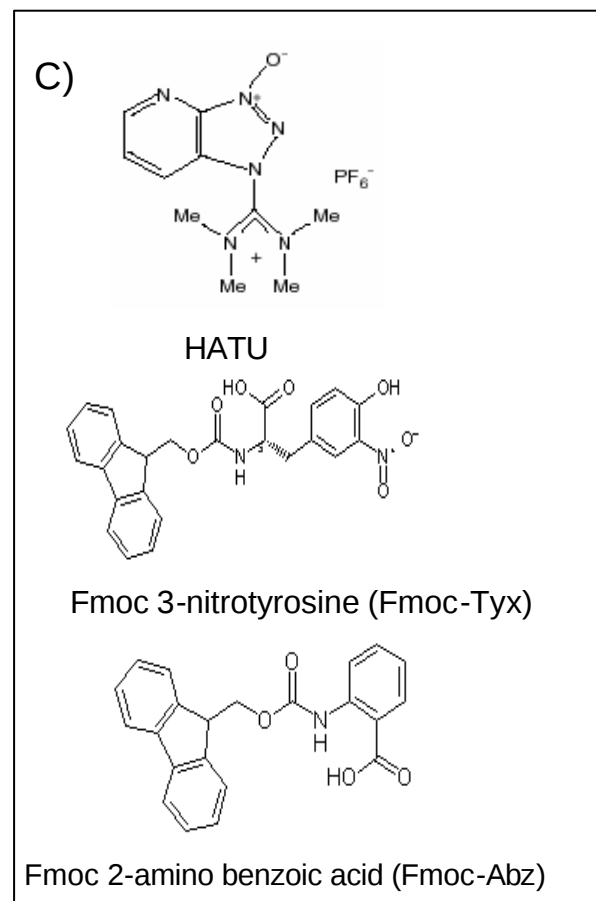
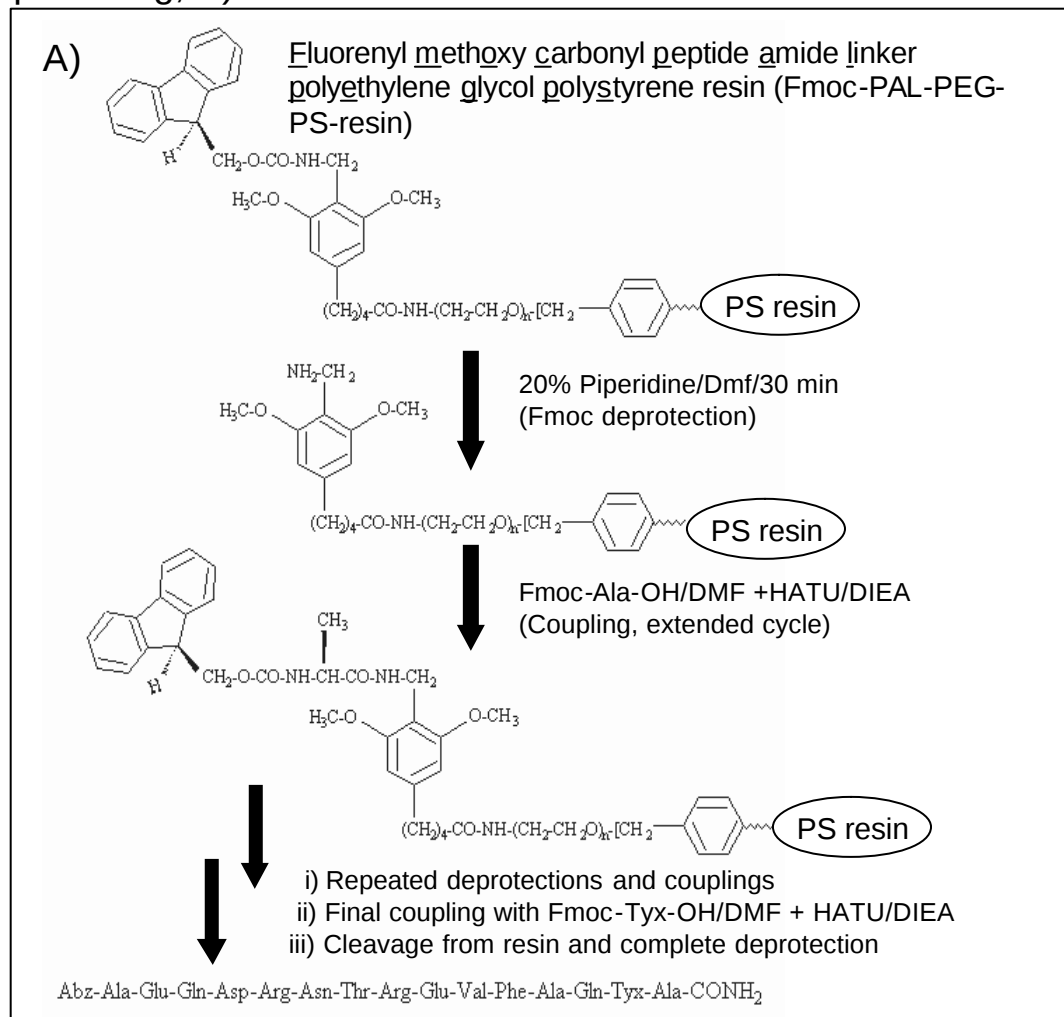


Figure S2. 1D proton NMR data of QSARS-4 peptide

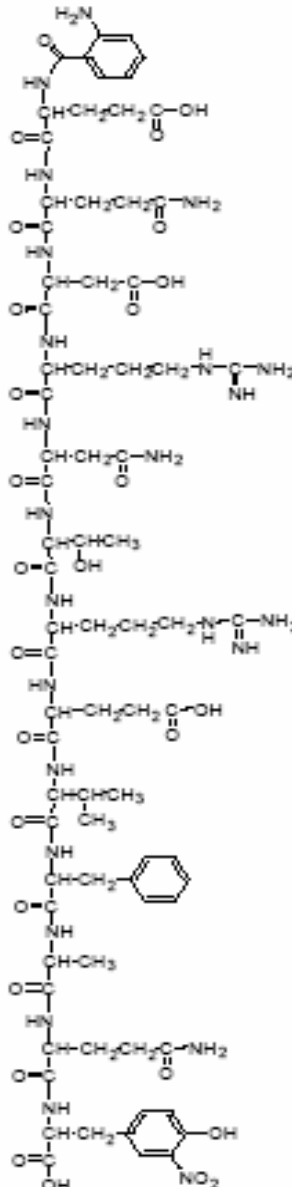
	AA	N-H	<i>N-H</i> ROESY correlation	α -H	α -H ROESY correlation	β 1, β 2-H	γ , δ and/or aromatic H's
	Abz						(7.39, 7.18, 6.73, 6.68, aromatics)
	E1	8.565	7.38 (Abz Ar-H)	4.24	8.50 (E8-NH)	1.90, 2.05	2.20
	Q2	8.195	4.14 (R7- α H) 2.99 F10- β H	4.06	7.92 (V9-NH)	1.75	2.00, 2.05
	D3	8.287	4.16 (E8- α H)	4.44		2.52, 2.58	
	R4	8.141	4.44 (D3- α H)	4.107		1.46	1.65, 1.68
	N5	8.405	4.107 (R4- α H)	4.57		2.65, 2.70	
	T6	7.905	4.57 (N5- α H)	4.125	8.10 (R7-NH)	4.125	1.05
	R7	8.105	4.125 (T6- α H)	4.14	8.20 (Q2-NH)	1.46	1.65, 1.68
	E8	8.490	4.24 (E1- α H)	4.16	8.28 (D3-NH)	1.82, 1.92	2.22
	V9	7.925	4.16 (E8- α H)	3.84	8.095 (F10-NH)	1.81	0.65, 0.70
	F10	8.090	3.84 (V9- α H)	4.45		2.84, 2.99	7.08-7.20 aromatics
	A11	8.019	4.45 (F10- α H)	4.045		1.115	
	Q12	8.055	4.05 (A11- α H)	3.99	8.095 (NY13-NH)	1.73	1.99, 2.04
	NY13	8.095	3.99 (Q12- α H)	4.445		2.78, 3.02	(7.73, 7.28, 6.83, aromatics)

Figure S3. ROESY spectrum of QSARS-4 peptide showing various correlations.

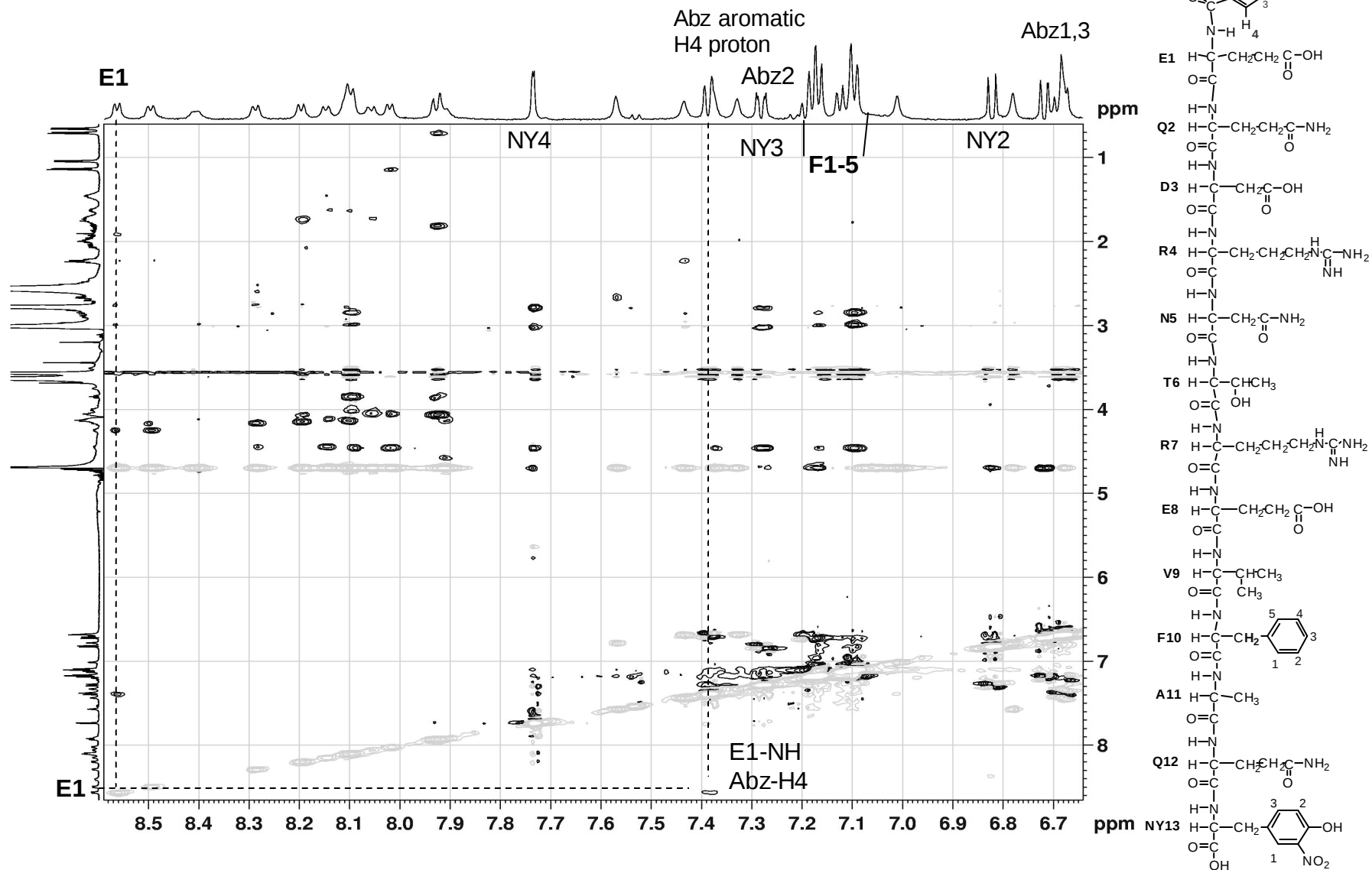


Figure S4. TOCSY spectrum for the fingerprint NH-aliphatic region of the QSARS-4 peptide.

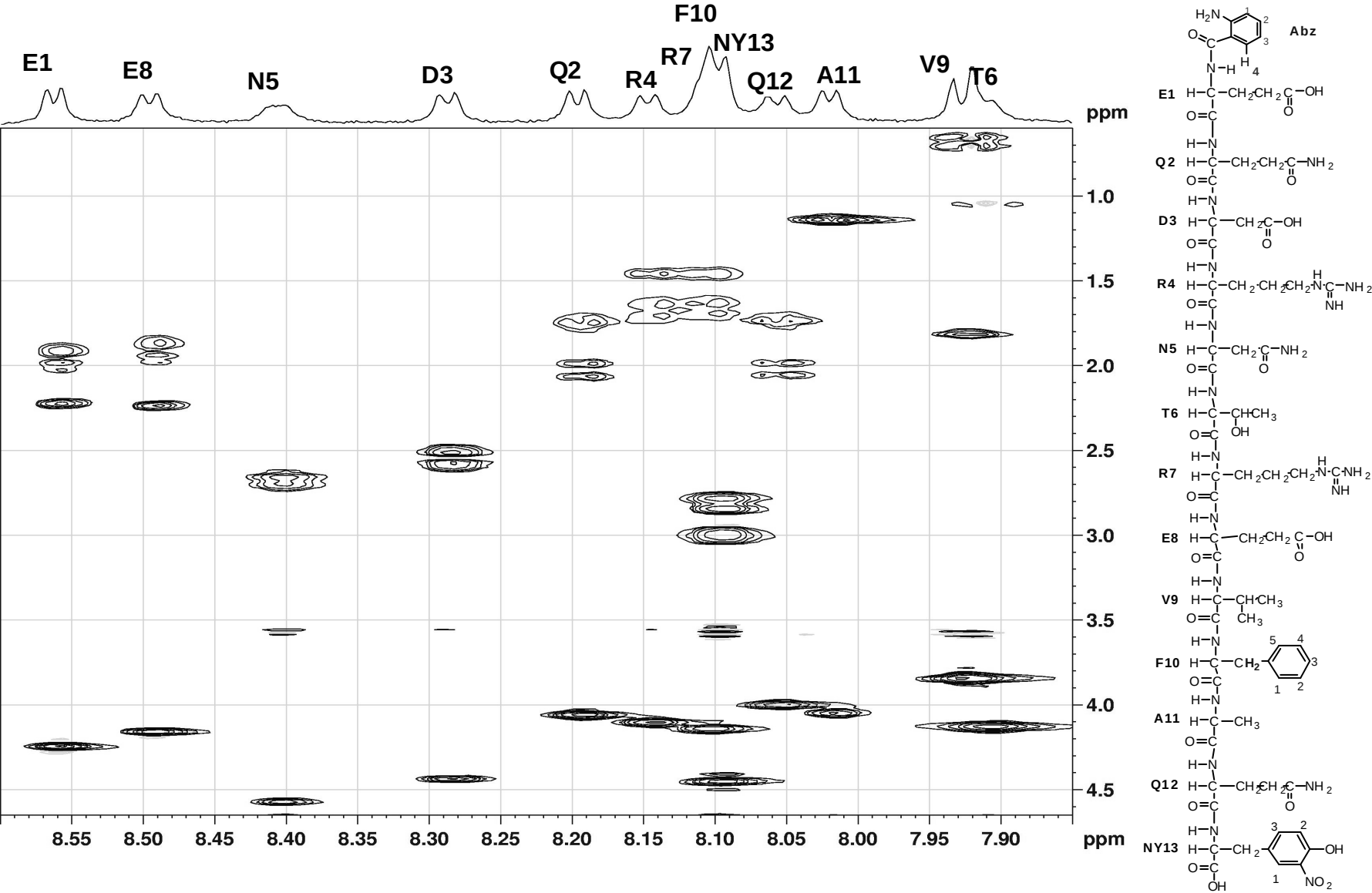


Figure S5. ROESY spectrum of QSARS-4.

