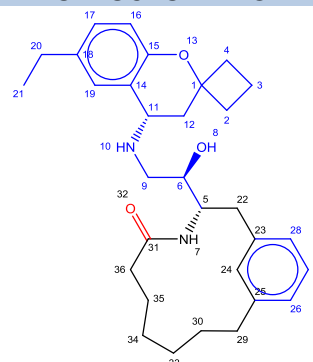
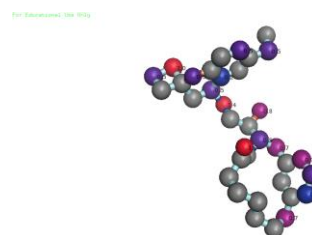


CODE	4KE0(PDB)	Resolution	2.3	
Name		Ring size	13	
Formula	C31H42N2O3	# Ligand atoms	36	
Type	Macrocyclic	Scorpion Score	10.3	
Mol. Weight (Da)	491	Saturated/Unsaturated	U	
cLogP	6.17	Chiral centres.ring	1	
tPSA	71	Chiral centres.sub	2	
#HBD's	3			
#HBA's	5			
N _{RB} (RING)	10	N _{RB} (SUBSTITUENT)	5	
Number of substituents	2	P/NP balance, substituents	3/19	
<i>Large (≥5HA)</i>	1	P/NP balance, peripheral groups	1/0	
<i>Small (2-4HA)</i>	1	Degrees of unsaturation ring	12	
Proportion HA in substituents	61.1%	N:O ratio	2:3	
Number of peripheral groups	1	Chiral centres	3	
Polarity distribution ligand atoms				
	All		Contact	
	<i>Polar</i>	<i>Nonpolar</i>	<i>Polar</i>	<i>Nonpolar</i>
Ring	1	12	-	6
Substituent	3	19	3	6
Peripheral groups	1	-	1	-
Total	5	31	4	12
Protein name	BACE1			
Organism	Homo sapiens			
Classification	Hydrolase/ hydrolase inhibitor			
Binding mode	Compact			
Receptor secondary structure topology				
Number of residue 'hotspots'	15			
Number of protein-ligand interactions* (Database link)				
Hydrogen bond	5	Hydrogen donor-π	1	
Ionic interaction	1	π-π	3	
Cation-dipole		VdW interaction	11	
Cation-π		Unfavourable	4	
Dipolar interaction		Poor-angle	2	
Halogen bond		Unclassified	1	
Water-mediated interaction	0			

2D-STRUCTURE LIGAND



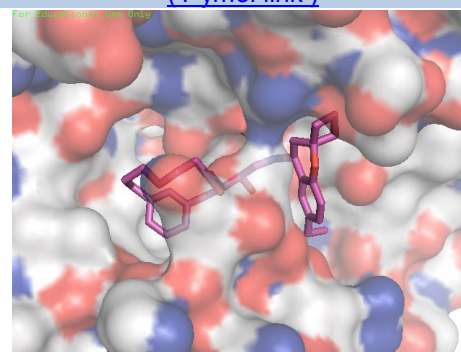
3D-STRUCTURE LIGAND +SCORPIONSORE ([Scorpion link](#))



Physicochemical properties

[click for publication](#)

LIGAND-PROTEIN COMPLEX (I) ([Pymol link](#))



LIGAND-PROTEIN COMPLEX (II)

