

## Records found: 1

## Compound: Verapamil

<p>The chemical structure of Verapamil is shown. It features a central carbon atom bonded to a cyano group (CN) and a propyl chain. The propyl chain is further substituted with a dimethylaminopropyl side chain. This side chain has a nitrogen atom bonded to two methyl groups (CH3) and is attached to a long hydrocarbon tail. The tail ends in a benzene ring substituted with two methoxy groups (OCH3).</p>						
CAS:	52-53-9					
Category:	Cardiovascular Agents					
Subcategory:	Calcium Channel Antagonists					
Formula:	C27 H38 N2 O4					
Molecular Weight:	454.6					
SMILES:	COc1=C(OC)C=C(CCN(C)CCCC(C#N)(C(C)C)C2=CC(OC)=C(OC)C=C2)C=C1>					
pKa:	8.9					
Low est Solubility (mg/ml):	0.01					
Human Permeability (x 10 <sup>4</sup> cm/s):	6.8	Measured <b>HIGH</b> Permeability				
cLogP (BioLoom 5.0):	4.47					
logP:	3.79					
Country List:	Minimum Dose (mg)	Maximum Dose (mg)	Do (min)**	Do (max)**	Solubility	BCS Class (Human)
WHO	40.0	80.0	16.0	32.0	LOW	Class II

\*\* A volume of 250 mL is used for the drugs on the US, UK, SP, KOR, and WHO lists, and a volume of 150 mL is used for drugs on the JP list.