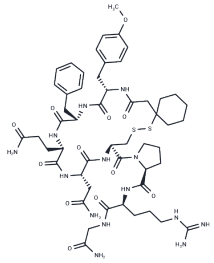
Data Sheet (Cat.No.TP2136)

TargetMol

(d(CH2)51,Tyr(Me)2,Arg8)-Vasopressin

Chemical Properties



CAS No. : 73168-24-8

Formula: C52H74N14O12S2

Molecular Weight: 1151.38

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Selective vasopressin V1A receptor antagonist. Inhibits vasopressin and oxytocin-induced increases in intracellular calcium concentrations in vitro (IC50 values are 5 and 30 nM respectively). Exhibits potent and prolonged antivasopressor activity and induces anxiolytic-like effects in the dorsal, but not ventral, hippocampus in vivo.
Targets(IC50)	Vasopressin Receptor

Solubility Information

Solubility	H2O: 2 mg/mL (1.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8685 mL	4.3426 mL	8.6852 mL
5 mM	0.1737 mL	0.8685 mL	1.737 mL
10 mM	0.0869 mL	0.4343 mL	0.8685 mL
50 mM	0.0174 mL	0.0869 mL	0.1737 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kruszynski et al (1980) [1-(β-mercapto-β,β-cyclopentamethylenepropionic acid),2-(O-methyl)tyrosine]arginine-vasopressin and [1-(β-mercapto-β,β-cyclopentamethylenepropionic acid)]arginine-vasopressin, two highly potent antagonists of the vas J.Med.Chem. 23 364 PMID: 6892930

Spath et al (1996) Arginine vasopressin and oxyt. increase intracellular calcium and cAMP in human glomerular epithelial cells in culture. Kidney Blood Press.Res. 19 81 PMID: 8871886

Tsuchiya et al (2002) Vasopressin inhibits sarcolemmal ATP-sensitive K+ channels via V1 receptors activation in the guinea pig heart. Circ.J. 66 277 PMID: 11922278

Engin and Treit (2008) Dissociation of the anxiolytic-like effects of Avpr1a and Avpr1b receptor antagonists in the dorsal and ventral hippocampus. Neuropeptides 42 411 PMID: 18508119

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