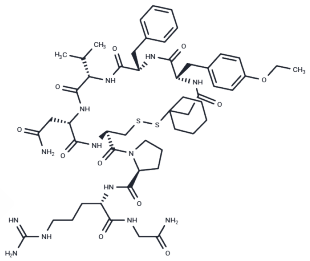
Data Sheet (Cat.No.T40884)

TargetMol

SKF 100398

Chemical Properties



CAS No. : 77453-01-1

Formula: C53H77N13O11S2

Molecular Weight: 1136.4

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	SKF 100398, also known as d(CH2)5Tyr(Et)VAVP, is a particular analog of arginine vasopressin (AVP). It acts as a specific antagonist, specifically targeting the antidiuretic effect caused by both exogenous and endogenous AVP.
Targets(IC50)	Vasopressin Receptor
In vivo	SKF 100398 specifically counteracts the water-retention effect of both externally supplied and internally generated arginine vasopressin (AVP)[1]. At a dosage of 8 μg/kg administered intravenously, SKF 100398 effectively nullifies AVP's antidiuretic action[1]. The study was conducted on male Sprague-Dawley rats weighing 250-300 g[1], demonstrating that this compound, when given intravenously at 8 μg/kg, completely inhibits the antidiuretic impact of externally administered AVP (4 ng/kg body wt i.v.).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.880 mL	4.3999 mL	8.7997 mL
5 mM	0.176 mL	0.880 mL	1.7599 mL
10 mM	0.088 mL	0.440 mL	0.880 mL
50 mM	0.0176 mL	0.088 mL	0.176 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

S Ishikawa, et al. Further in vivo evidence for antagonist-to-antidiuretic action of arginine vasopressin. Am J Physiol. 1983 Nov;245(5 Pt 1):R713-9.

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