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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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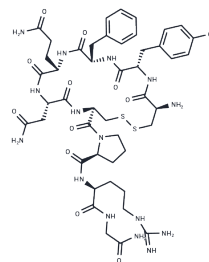
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Vasopressin

Chemical Properties

CAS No. :	11000-17-2
Formula:	C ₄₆ H ₆₅ N ₁₅ O ₁₂ S ₂
Molecular Weight:	1084.24
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Vasopressin (argipressin), a cyclic nine-peptide synthesized by hypothalamic neurons, is one of the hormones involved in peptide prohormone synthesis. Vasopressin is involved in the regulation process of hypothalamic-pituitary-adrenal axis, increasing the amount of solute free water reabsorbed from the renal tubule's colate back into the circulation, narrowing arteries to increase pressure, enhancing the stimulating effect of corticotropin releasing factor to regulate pituitary corticotropin secretion. Vasopressin acts as a neurotransmitter during nerve conduction by binding to specific G-protein-coupled receptors.
Targets(IC50)	Endogenous Metabolite
In vitro	AVP (0.01 nM-1 μM) triggers Ca ²⁺ elevation in Chinese hamster ovary cells expressing either rat or human V1b receptors.[1]
In vivo	Vasopressin (0.03-0.3μg/kg; i.p.) enhances corticotropin release elicited by exogenous corticoliberin and amplifies corticotropin secretion following dehydration.[1] Vasopressin (0.001-0.1mg/kg; i.p.) significantly promotes proximity, wherein rats encountering each other for the first time exhibit passive side-by-side positioning.[2]

Solubility Information

Solubility	DMSO: 90.0 mg/mL (83.0 mM),Sonication is recommended. H ₂ O: 45.0 mg/mL (41.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9223 mL	4.6115 mL	9.2231 mL
5 mM	0.1845 mL	0.9223 mL	1.8446 mL
10 mM	0.0922 mL	0.4612 mL	0.9223 mL
50 mM	0.0184 mL	0.0922 mL	0.1845 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.

Reference

Ramos L, et al. Acute prosocial effects of oxytocin and vasopressin when given alone or in combination with 3,4-methylenedioxymethamphetamine in rats: involvement of the V1A receptor. *Neuropsychopharmacology*. 2013;38

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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