

Vasopressin acetate

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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 acetate, a cyclic nonapeptide, is synthesized centrally in the hypothalamus. Vasopressin acetate acts as a neurotransmitter, exerting its action by binding to specific G protein-coupled receptors.
Targets(IC50)	Endogenous Metabolite
In vitro	Vasopressin acetate participates in the hypothalamic-pituitary-adrenal axis and regulates pituitary corticotropin secretion by potentiating the stimulatory effects of the corticotropin-releasing factor. Vasopressin acetate (0.01 nM-1 μ M) induces Ca ²⁺ increase in Chinese hamster ovary cells expressing rat or human V1b receptors[1].
In vivo	Vasopressin acetate (0.03-0.3 μ g/kg; i.p.) increases corticotropin secretion subsequent to body water loss and potentiated corticotropin release provoked by exogenous corticoliberin[1]. Vasopressin acetate (0.001-0.1mg/kg; i.p.) was increased when lying

Solubility Information

Solubility	DMSO: 50.00mg/ml (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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

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