

d[Cha4]-AVP acetate(500170-27-4 free base)

Chemical Properties

CAS No. :

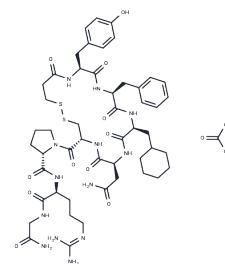
Formula: C52H75N13O13S2

Molecular Weight: 1154.37

Keep away from moisture

Storage: 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	d[Cha4]-AVP acetate is a potent and selective human vasopressin V1B receptor agonist (Ki values are 1.2, 151, 240 and 750 nM for V1B, V1A, Oxytocin and V2 receptors respectively). Stimulates ACTH and corticosterone secretion and exhibits negligible vasopressor activity in vivo.
Targets(IC50)	Vasopressin Receptor

Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8663 mL	4.3314 mL	8.6627 mL
5 mM	0.1733 mL	0.8663 mL	1.7325 mL
10 mM	0.0866 mL	0.4331 mL	0.8663 mL
50 mM	0.0173 mL	0.0866 mL	0.1733 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

Derick et al (2002) [1-Deamino-4-cyclohexylalanine] arginine vasopressin: a potent and specific agonist for vasopressin V1b receptors. Endocrinology 143 4655 PMID:

Cheng et al (2004) Design of potent and selective agonists for the human vasopressin V1b receptor based on modifications of [deamino-cys1]arginine vasopressin at position 4. J.Med.Chem. 47 2375 PMID:

Pena et al (2007) Design and synthesis of the first selective agonists for the rat vasopressin V1b receptor: based on modifications of deamino-[cys1]arginine vasopressin at positions 4 and 8. J.Med.Chem. 50 835 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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