

Argipressin

Chemical Properties

CAS No. : 113-79-1

Formula: C₄₆H₆₅N₁₅O₁₂S₂

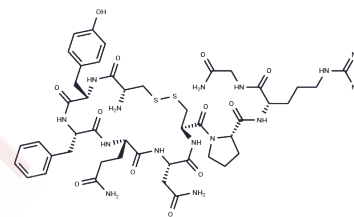
Molecular Weight: 1084.23

Storage:

Keep away from moisture, Store at low temperature,
Keep away from direct sunlight

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	Argipressin (Arg8-vasopressin) inhibits central corticotropin-releasing hormone. Argipressin acts as a repressor in the regulation of central CRH levels. 5A2-SC8 is an APC-dependent protein.
Targets(IC50)	Vasopressin Receptor
In vitro	Argipressin exhibits a K _d value of 1.31 nM in A7r5 rat aortic smooth muscle cells by binding to vasopressin arginine receptor V1. In addition, it stimulated intracellular calcium release in A7r5 cells with an EC ₅₀ of 5 nM. [1] Argipressin induces [Ca ²⁺] _i signaling in DRG cell cultures and exhibits immunoreactivity against S-100. The lowest effective concentration of Argipressin for inducing [Ca ²⁺] _i responses in DRG-cultured non-neuronal cells is 100 pM. [2]
In vivo	In rat models, argipressin induces hypertension and tachycardia when injected into the lateral septal nuclei at a dose of 100-400 ng and increases heart rate and mean arterial pressure (MAP) when injected into the medial amygdaloid body at a dose of 150-600 ng.

Solubility Information

Solubility	H ₂ O: 80 mg/mL (73.79 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	0.9223 mL	4.6116 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.

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

Thibonnier M, et al. Multiple signaling pathways of V1-vascular vasopressin receptors of A7r5 cells. *Endocrinology*. 1991 Dec;129(6):2845-56.

Moriya T, et al. Vasopressin-induced intracellular Ca²⁺ concentration responses in non-neuronal cells of the rat dorsal root ganglion. *Brain Res*. 2012 Nov 5;1483:1-12.

Park KS, et al. Role of vasopressin in current anesthetic practice. *Korean J Anesthesiol*. 2017 Jun;70(3):245-257.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481