

Data Sheet

Product Name:	Argipressin	
Cat. No.:	CS-5742	
CAS No.:	113-79-1	
Molecular Formula:	C46H65N15O12S2	
Molecular Weight:	1084.23	CYFQNCPRG-NH ₂ (Disulfide bridge: Cys1-Cys6)
Target:	Others	
Pathway:	Others	
Solubility:	H ₂ O : ≥ 360 mg/mL (332.03 mM)	

BIOLOGICAL ACTIVITY:

Argipressin binds to the **V1, V2, V3-vascular arginine vasopressin receptor**, with a K_d value of 1.31 nM in A7r5 rat aortic smooth muscle cells for V1. Argipressin is a selective V2 agonist. **In Vitro:** Argipressin binds to the vascular arginine vasopressin receptor, V1, with a K_d value of 1.31 nM in A7r5 rat aortic smooth muscle cells. It also stimulates the intracellular release of calcium in A7r5 cells ($EC_{50}=5$ nM)^[1]. AVP-induced $[Ca^{2+}]_i$ signals and immunized activity against S-100 in DRG cell culture. The minimum effective concentrations of Argipressin causing $[Ca^{2+}]_i$ responses are 100 pM in non-neuronal cells in DRG culture^[2].

References:

- [1]. Thibonnier M, et al. Multiple signaling pathways of V1-vascular vasopressin receptors of A7r5 cells. *Endocrinology*. 1991 Dec;129(6):2845-56.
- [2]. Moriya T, et al. Vasopressin-induced intracellular Ca^{2+} concentration responses in non-neuronal cells of the rat dorsal root ganglion. *Brain Res*. 2012 Nov 5;1483:1-12.
- [3]. Keun Suk Park, et al. Role of vasopressin in current anesthetic practice. *Korean J Anesthesiol*. 2017 Jun; 70(3): 245–257.

CAIndexNames:

Vasopressin, 8-L-arginine-

SMILES:

[CYFQNCPRG-NH₂(Disulfide bridge: Cys1-Cys6)]

Caution: Product has not been fully validated for medical applications. For research use only.

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