

[DPro10] Dynorphin A (1-11)acetate,porcine

Chemical Properties

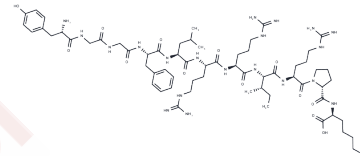
CAS No. :

Formula: C65H107N21O15

Molecular Weight: 1422.7

Storage: Store at low temperature,Keep away from moisture
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	[DPro10] Dynorphin A (1-11)acetate,porcine is a highly potent κ -opioid receptor agonist with a K_i value of 0.13 nM. [DPro10] Dynorphin A (1-11), porcine is an n-alkylated derivative with analgesic activity.
Targets(IC50)	Opioid Receptor
In vitro	Porcine [DPro10] Dynorphin A (1-11) inhibits adenylyl cyclase activity in CHO cells expressing κ -opioid receptors, with an IC50 value of 0.12 nM[1].
In vivo	Administered intracerebroventricularly (ICV), [DPro10] Dynorphin A (1-11), porcine, exhibits analgesic effects involving thermal cutaneous (tail-flick) and chemical visceral (acetic acid-induced writhing) stimuli, with known differential activation of mu and kappa receptors[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7029 mL	3.5144 mL	7.0289 mL
5 mM	0.1406 mL	0.7029 mL	1.4058 mL
10 mM	0.0703 mL	0.3514 mL	0.7029 mL
50 mM	0.0141 mL	0.0703 mL	0.1406 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

Soderstrom K, et, al. N-alkylated derivatives of [D-Pro10]dynorphin A-(1-11) are high affinity partial agonists at the cloned rat kappa-opioid receptor. Eur J Pharmacol. 1997 Nov 5;338(2):191-7.

Gairin JE, et, al. [D-Pro10]-dynorphin(1-11) is a kappa-selective opioid analgesic in mice. J Pharmacol Exp Ther. 1988 Jun;245(3):995-1001.

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