

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

Chemical Properties

CAS No. :

Formula: C₆₃H₁₀₃N₂₁O₁₃.xHCl

Molecular Weight:

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	[DPro10] Dynorphin A (1-11), porcine hydrochloride, is an N-alkylated derivative and potent κ -opioid receptor agonist with a K_i value of 0.13 nM, possessing analgesic properties [1] [2].
Targets(IC50)	Opioid Receptor, AChR
In vitro	'[DPro10] Dynorphin A (1-11), porcine,' inhibits adenylyl cyclase activity in CHO cells expressing κ -opioid receptors, exhibiting an IC ₅₀ of 0.12 nM [1].
In vivo	"[DPro10] Dynorphin A (1-11), porcine, administered intracerebroventricularly (ICV), exhibits analgesic properties in response to thermal cutaneous (tail-flick) and chemical visceral (AcOH-induced writhing) pain. This analgesia is mediated through the differential activation of mu and kappa opioid receptors [2]."

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