## Product Data Sheet

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

**MedChemExpress** 

<b>Cat. No.:</b> HY-P3647	
<b>CAS No.:</b> 94596-26-6	
Molecular Formula: $C_{63}H_{103}N_{21}O_{13}$	
Molecular Weight: 1362.62	
Sequence: Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-{d-Pro}-Lys	
Sequence Shortening: YGGFLRRIR-{d-Pro}-K	
Target: Opioid Receptor; Adenylate Cyclase	
Pathway: GPCR/G Protein; Neuronal Signaling	
Storage:Please store the product under the recommended conditions in the Conditional Analysis.	ertificate of

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Description	[DPro10] Dynorphin A (1-11), porcine, a N-Alkylated derivative, is a potent κ-opioid receptor agonist with a K <sub>i</sub> value of 0.13 nM. [DPro10] Dynorphin A (1-11), porcine has analgesic property <sup>[1][2]</sup> .	
In Vitro	[DPro10] Dynorphin A (1-11), porcine has inhibition of adenylyl cyclase activity in k-opioid receptor-expressing CHO cells with an IC <sub>50</sub> value of 0.12 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	[DPro10] Dynorphin A (1-11), porcine (ICV) has analgesic effects involving thermal cutaneous (tail-flick) and chemical visceral (AcOH-induced writhing) stimuli, in which mu and kappa receptors are known to be activated differentially <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. 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.

[2]. 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.

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

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Inhibitors

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