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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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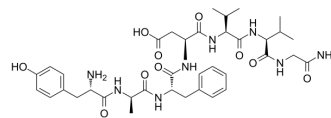
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Deltorphin I

Cat. No.:	HY-P1336
CAS No.:	122752-15-2
Molecular Formula:	C ₃₇ H ₅₂ N ₈ O ₁₀
Molecular Weight:	768.86
Sequence:	Tyr-[d-Ala]-Phe-Asp-Val-Val-Gly-NH ₂
Sequence Shortening:	Y-[d-Ala]-FDVVG-NH ₂
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (32.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.3006 mL	6.5031 mL	13.0063 mL
	5 mM	0.2601 mL	1.3006 mL	2.6013 mL
	10 mM	0.1301 mL	0.6503 mL	1.3006 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Deltorphin I is a δ -opioid receptor agonist with high affinity and selectivity.

IC₅₀ & Target

δ Opioid Receptor/DOR

In Vivo

Twice daily administration of Deltorphin I (20 μ g/mouse) for 4 days produces tolerance to Deltorphin I analgesia, as shown by the decrease in the analgesic response. The peak analgesic response to Deltorphin I (20 μ g/mouse) at 10 min after injections is decreased from 8.36 \pm 0.28 s (the 1st day) to 4.53 \pm 0.14 s (the 4th day) markedly. Concurrent treatment of Melatonin (0.5, 1 and 2.5 mg/kg) and Deltorphin I (20 μ g/mouse) twice daily for 4 days can attenuate the tolerance to Deltorphin I analgesia (P<0.05, <0.05 and <0.05), and this effect is dose dependent^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

Mice^[1]

Male Kunming mice (20.0±1.0 g) are used. In order to investigate the chronic effect of Melatonin on opioid receptor agonist analgesia, 18, 17, 16 and 21 mice are treated with Melatonin (0, 0.5, 1 and 2.5 mg/kg, respectively) twice daily for 4 days. On the 5th day, 8, 8, 8 and 9 mice are administered with Endomorphin-1 18 µg/mouse (corresponding to 0, 0.5, 1 and 2.5 mg/kg Melatonin, respectively), while 10, 9, 8 and 12 mice are administered with Deltorphin I 20 µg/mouse (corresponding to 0, 0.5, 1 and 2.5 mg/kg Melatonin, respectively). Subsequently tail-flick latency is measured at 10 min interval within 60 min^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dai X, et al. Melatonin attenuates the development of antinociceptive tolerance to delta-, but not to mu-opioid receptor agonist in mice. Behav Brain Res. 2007 Aug 22;182(1):21-7.

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

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