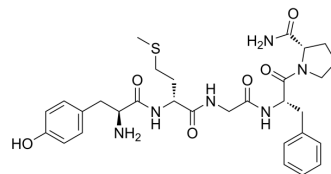


(D-Met2,Pro5)-Enkephalinamide

Cat. No.:	HY-P3547
CAS No.:	63307-63-1
Molecular Formula:	C ₃₀ H ₄₀ N ₆ O ₆ S
Molecular Weight:	612.74
Sequence Shortening:	Y-{d-Met}-GFP-NH2
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(D-Met2,Pro5)-Enkephalinamide is a highly potent opiate agonist, and shows antinociceptive activity ^{[1][2][3]} .								
In Vivo	<p>(D-Met2,Pro5)-Enkephalinamide (intravenous injection; 0.25 and 0.5 mg/kg; once) leads to the decrease of prolactin (PRL) secretion in lactating rats^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Wistar lactating rats^[2]</td> </tr> <tr> <td>Dosage:</td> <td>0.25 and 0.5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection; 0.25 and 0.5 mg/kg; once</td> </tr> <tr> <td>Result:</td> <td>Decreased plasma PRL levels 15 min after the administration in continuously lactating rats. Produced a marked depression in plasma PRL concentration in non-deprived lactating mothers.</td> </tr> </table>	Animal Model:	Wistar lactating rats ^[2]	Dosage:	0.25 and 0.5 mg/kg	Administration:	Intravenous injection; 0.25 and 0.5 mg/kg; once	Result:	Decreased plasma PRL levels 15 min after the administration in continuously lactating rats. Produced a marked depression in plasma PRL concentration in non-deprived lactating mothers.
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REFERENCES

- [1]. Decsi L, et al. Effect of (D-Met2, Pro5)enkephalinamide, a highly potent opiate agonist, on the drinking behaviour of rats. *Neuropharmacology*. 1985 Jan;24(1):5-8.
- [2]. Nagy G, et al. (D-Met2,Pro5) enkephalinamide causes a decrease in plasma prolactin levels of lactating rats continuously suckled and an increase in those deprived of their litter. *Regul Pept*. 1984 Jul;8(4):321-6.
- [3]. Wollemann M, et al. Effect of Met-enkephalin and (D-Met2,Pro5)-enkephalinamide on the adenylate cyclase activity of rat brain. *Neurochem Res*. 1979 Oct;4(5):627-31.

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

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