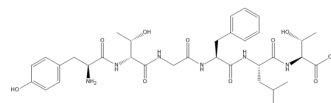


## Deltakephalin

<b>Cat. No.:</b>	HY-P2572
<b>CAS No.:</b>	85286-38-0
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>48</sub> N <sub>6</sub> O <sub>10</sub>
<b>Molecular Weight:</b>	700.78
<b>Sequence Shortening:</b>	Y-{d-Thr}-GFLT
<b>Target:</b>	Opioid Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Deltakephalin is a potent, selective opiate $\delta$ -receptor agonist. Deltakephalin has analgesic properties <sup>[1]</sup> .	
<b>In Vivo</b>	Deltakephalin (2 nM/rat; ICV; once) produces a pronounced analgesia in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Male spontaneously hypertensive rats (SHR/n/Ibm) and male Wistar Albino Glaxo rats (WAG) (250-300 g) <sup>[1]</sup>
	<b>Dosage:</b>	2 nM/rat
	<b>Administration:</b>	Intracerebroventricular injection
	<b>Result:</b>	Produced pronounced analgesia in male spontaneously hypertensive rats with EC <sub>50</sub> values of 0.57 and 0.88 nM for the tail flick test and the tail compression test, respectively.

### REFERENCES

[1]. Widy-Tyszkiewicz E, et, al. Analgesic activity of morphiceptin, beta-casomorphin-4, and deltakephalin in normotensive Wistar-Glaxo and spontaneously hypertensive rats. *Peptides*. 1989 May-Jun;10(3):539-44.

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

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