## [DPen2, Pen5] Enkephalin

Cat. No.:	HY-P3546	
CAS No.:	88373-72-2	
Molecular Formula:	C <sub>30</sub> H <sub>39</sub> N <sub>5</sub> O <sub>7</sub> S <sub>2</sub>	
Molecular Weight:	645.79	
Sequence Shortening:	Y-{d-Pen}-GF-{Pen} (Disulfide bridge: d-Pen2-Pen5)	O O NHS
Target:	Opioid Receptor	N S
Pathway:	GPCR/G Protein; Neuronal Signaling	HO NH <sub>2</sub>
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	[DPen2, Pen5] Enkephalin is a δ-opioid receptor selective analog of <u>[Leu5]-Enkephalin</u> (HY-P0288) <sup>[1]</sup> .		
IC <sub>50</sub> & Target	δ Opioid Receptor/DOR		
In Vivo	[DPen2, Pen5] Enkephalin (0-3.32 μg/kg, IP) impairs acquisition of an automated jump-up avoidance response in rats and acquisition of a one-way active avoidance response in mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male Sprague-Dawley rats (260-280 g) <sup>[1]</sup>	
	Dosage:	0, 1.16, 11.6 μg/kg	
	Administration:	IP, administered on day 2 prior to presentation of eight training trials, on subsequent one- way avoidance responding.	
	Result:	Produced a significant impairment of avoidance performance at 1.16 ug/kg, while the 11.6 ug/kg dose was without significant effect.	
	Animal Model:	Male Sprague-Dawley rats (260-280 g) <sup>[1]</sup>	
	Dosage:	0, 0.332, 3.32 μg/kg	
	Administration:	IP, administered on day 1 immediately after presentation of two escape-only trials, on subsequent day 2 one-way avoidance responding in the second experiment	
	Result:	Produced a significant enhancement of avoidance performance at 0.332 ug/kg, while the 3.32 ug/kg dose was without significant effect.	

## Product Data Sheet

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[1]. Martinez JL Jr, et al. D-Pen2-[D-Pen5]enkephalin impairs acquisition and enhances retention of a one-way active avoidance response in rats. Peptides. 1992 Sep-Oct;13(5):885-9.

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

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