

## Dynorphin A (1-8)

Cat. No.:	HY-P2159
CAS No.:	75790-53-3
Molecular Formula:	C <sub>46</sub> H <sub>72</sub> N <sub>14</sub> O <sub>10</sub>
Molecular Weight:	981.15
Sequence Shortening:	YGGFLRRI
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

Dynorphin A (1-8) is the predominant opioid peptide identified in placental tissue extracts. Dynorphin A (1-8) is the most likely natural ligand of the kappa receptor. The binding of 3H-Bremazocine to the purified kappa receptor is inhibited by Dynorphin A (1-8) (IC<sub>50</sub>=303 nM)<sup>[1][2]</sup>.

### REFERENCES

[1]. Agbas A, Ahmed MS, Millington W, et al. Dynorphin A(1-8) in human placenta: amino acid sequence determined by tandem mass spectrometry. *Peptides*. 1995;16(4):623-627.

[2]. Ahmed MS, Zhou DH, Cavinato AG, Maulik D. Opioid binding properties of the purified kappa receptor from human placenta. *Life Sci*. 1989;44(13):861-871.

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

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