

BAM-12P

Cat. No.:	HY-W019787
CAS No.:	75513-71-2
Molecular Formula:	C ₆₂ H ₉₇ N ₂₁ O ₁₆ S
Molecular Weight:	1424.63
Sequence Shortening:	YGGFMRRVGRPE
Target:	Opioid Receptor; CXCR
Pathway:	GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	BAM-12P, an endogenous opioid peptide, is a novel pro-Met-enkephalin. BAM-12P can activate human κ -opioid receptor (hKOR) with an EC ₅₀ of 101 nM and a pEC ₅₀ of 6.99. BAM-12P is a ligand for CXCR7 with an EC ₅₀ of 175 nM ^{[1][2][3]} .		
IC₅₀ & Target	human κ -opioid receptor (hKOR) 101 nM (EC50)	human κ -opioid receptor (hKOR) 6.99 (pEC50)	CXCR7 175 nM (EC50)
In Vitro	BAM-12P shows potent opiate activity in guinea-pig ileum assay with an IC ₅₀ of 15.5 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

- [1]. K Mizuno, et al. A new endogenous opioid peptide from bovine adrenal medulla: isolation and amino acid sequence of a dodecapeptide (BAM-12P). *Biochem Biophys Res Commun.* 1980 Aug 29;95(4):1482-8.
- [2]. Eyal Vardy, et al. A New DREADD Facilitates the Multiplexed Chemogenetic Interrogation of Behavior. *Neuron.* 2015 May 20;86(4):936-946.
- [3]. Yuichi Ikeda, et al. Modulation of circadian glucocorticoid oscillation via adrenal opioid-CXCR7 signaling alters emotional behavior. *Cell.* 2013 Dec 5;155(6):1323-36.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA