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DATASHEET

Endomorphin-2

Product overview

Name	Endomorphin-2
Cat No	HB2411
Biological action	Agonist
Purity	>95%
Description	Potent, selective μ -opioid receptor agonist

Biological Data

Biological description	Potent, selective μ -opioid receptor agonist (K_i values are 0.69 nM and 9.2 and 5.2 μ M at μ , δ and κ receptors respectively). Endogenous peptide. Shows antinociceptive activity.
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	Soluble in water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Tyr-Pro-Phe-Phe-NH ₂
Molecular Weight	571.65
Chemical structure	
Molecular Formula	C ₃₂ H ₃₇ N ₅ O ₅
CAS Number	141801-26-5
PubChem identifier	5311081
SMILES	<chem>C1CC(N(C1)C(=O)C(CC2=CC=C(C=C2)O)N)C(=O)NC(CC3=CC=CC=C3)C(=O)NC(CC4=CC=CC=C4)C(=O)N</chem>
InChiKey	XIJHWXXXIMEHKW-LJWNLINESA-N

References

A potent and selective endogenous agonist for the mu-opiate receptor.

Zadina et al (1997) Nature 386

PubMedID [9087409](#)

Opposite effects of neuropeptide FF on central antinociception induced by endomorphin-1 and endomorphin-2 in mice.

Wang et al (2014) PLoS 9

PubMedID [25090615](#)

Endomorphin-1 and endomorphin-2: pharmacology of the selective endogenous mu-opioid receptor agonists.

Horvath (2000) Pharmacol Ther 88

