

β -Endorphin (1-27) (human) (trifluoroacetate salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description

β -Endorphin (1-27) is an endogenous peptide that binds to μ -, δ -, and κ -opioid receptors (K_{is} = 5.31, 6.17, and 39.82 nM, respectively, in COS-1 cells expressing rat receptors). It binds to rat and mouse brain membrane preparations (IC_{50} s = 1.1 and 5.7 nM, respectively) and induces chemotaxis of human monocytes in vitro when used at a concentration of 1 nM. Intracerebroventricular administration of β -endorphin (1-27) increases the latency to tail withdrawal in response to thermal stimulation in mice with a median antinociceptive dose (AD_{50}) of 1,500 pmol per animal. It inhibits antinociception induced by β -endorphin in mice in response to thermal stimuli when administered at a dose of 65 pmol per animal. In rats, β -endorphin (1-27) does not affect drug-associated place preference when administered at doses up to 20 μ g, i.c.v., but inhibits β -endorphin-induced place preference when administered at a dose of 10 μ g per animal.

Solubility Information

Solubility

DMSO: 1 mg/mL, Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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