Product Data Sheet

Product Name:	N-terminally acetylated Leu-enkephalin (Ac-L-Tyr-Gly-Gly-L-Phe-D-Leu-COOH)
Cat. No.:	GC34399

Chemical Properties

Cas. No.			
SMILES	Ac-L-Tyr-Gly-Gly-L-Phe-D-Leu-COOH		
Formula	$C_{30}H_{39}N_5O_8$	M.Wt	597.66
Solubility	Soluble in Water	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

N-terminally acetylated Leu-enkephalin is the N-terminally acetylated form of Leu-enkephalin. Leu-enkephalin is a five amino acid endogenous peptide that acts as an agonist at opioid receptors.

Enkephalins (met- , leu-enkephalin, and enkephalin 8) and dynorphins are two classes of opioid peptides found in the spinal dorsal horn. Mu, delta, and kappa are three major subtypes of opioid receptors. Enkephalins are putative endogenous ligands for delta opioid receptors, and dynorphins are endogenous ligands for the kappa opioid receptors. Three receptor types resembling the vertebrate δ- and κ-type opioid receptors have been characterized pharmacologically in nervous tissues (e.g. Ki=18.9 nM for Leu-enkephalin) and localized by autoradiography at CHH terminals in the SG of C. maenas[1].

[1]. Leu-enkephalin is a five amino acid endogenous peptide that acts as an agonist at opioid receptors.

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