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**Product Data Sheet**

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Product Name: N-terminally acetylated Leu-enkephalin

Cat. No.: GC36778

**Chemical Properties**

Cas. No. 2703746-32-9

Formula C<sub>30</sub>H<sub>39</sub>N<sub>5</sub>O<sub>8</sub> M.Wt 597.66

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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  $\delta$ - and  $\kappa$ -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.

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

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