

Product Data Sheet

Product Name: Porcine dynorphin A(1-13)

Cat. No.: GC36947

Chemical Properties

Cas. No. 72957-38-1

Formula $C_{75}H_{126}N_{24}O_{15}$ M.Wt 1603.96

Solubility Water: ≥ 60 mg/mL (37.41 mM) 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

YGGFLRRIRPKLK

Background

Porcine dynorphin A (1-13) is a potent, endogenous κ opioid receptor agonist and is antinociceptive at physiological concentrations.

Dynorphin A (1-13) exposure ($33\text{ }\mu\text{M}$) causes a significant loss in neuronal viability at 4 h with a visible destruction in neuronal morphology seen at 16 h. Exposure to dynorphin A (1-13) causes acute increases in $[\text{Ca}^{2+}]_i$ in individual neurons similar to increases seen with acute NMDA treatment. Continuous exposure to dynorphin A (1-13) ($100\text{ }\mu\text{M}$) causes a significant loss of neurons over time[1].

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

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References:

[1]. Hauser KF, et al. Dynorphin A (1-13) neurotoxicity in vitro: opioid and non-opioid mechanisms in mouse spinal cord neurons. Exp Neurol. 1999 Dec;160(2):361-75.

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