

Product Data Sheet

Product Name: Emideltide (acetate)

Cat. No.: GC49260

Chemical Properties

Cas. No. N/A

SMILES OC(CC[C@@H](C(O)=O)NC(CNC([C@H](CO)NC([C@H](C)NC([C@H](CC(O)=O)NC(CNC(CNC([C@H](C)NC([C@@H](N)CC1=CNC2=CC=CC=C12)=O)=O)=O)=O)=O)=O)=O).CC(O)=O

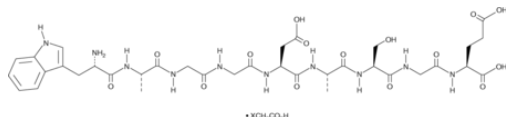
Formula C₃₅H₄₈N₁₀O₁₅·XC₂H₄O₂ M.Wt 848.8

Solubility DMSO: slightly soluble, PBS (pH 7.2): 10 mg/ml Storage -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

Emideltide, also known as delta sleep-inducing peptide (DSIP), is a synthetic nonapeptide sedative.¹ *In vivo*, emideltide (30 nmol/kg, i.v.) increases EEG delta activity and induces orthodox slow-wave sleep in free-moving rabbits. It also increases non-rapid eye movement (NREM) and total sleep in free-moving rats.²

1. Monnier, M., Dudler, L., GÄchter, R., et al. Delta sleep-inducing peptide (DSIP): EEG and motor activity in rabbits following intravenous administration *Neurosci. Lett.* 6(1)9-13(1977) 2. Kafi, S., Monnier, M., and Gallard, J.M. The delta-sleep inducing peptide (DSIP) increases duration of sleep in rats *Neurosci. Lett.* 13(2)169-172(1979)

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

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