

Product Data Sheet

Product Name: Ipamorelin (acetate)

Cat. No.: GC91449

Chemical Properties

Cas. No.

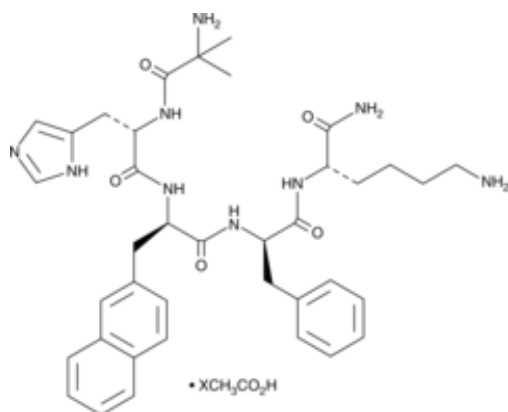
Formula C₃₈H₄₉N₉O₅ ? XC₂H₄O₂ M.Wt 711.9

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 10 mg/ml 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

Ipamorelin is a pentapeptide growth hormone secretagogue (GHS) and GHS receptor 1a (GHS-R1a) agonist.^{1,2} It binds to COS-7 cells expressing GHS-R1a (K_i = 63.4 nM), induces inositol-1,4,5-triphosphate (IP₃) accumulation in BHK cells expressing GHS-R1a (EC₅₀ = 46.9 nM), and induces GH release in primary rat pituitary cells (EC₅₀ = 1.3 nM).¹ Ipamorelin increases plasma levels of GH in rats and pigs (ED₅₀s = 80 and 2.3 nmol/kg, respectively) but does not increase plasma levels of follicle-stimulating hormone (FSH), luteinizing hormone (LH), prolactin, or thyroid stimulating hormone (TSH) in pigs when administered at a dose of 420 nmol/kg.² It increases gastric emptying in a rat model of postoperative ileus induced by laparotomy and intestinal manipulation when administered at

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

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doses of 0.014 or 0.14 $\mu\text{mol/kg}$.³ Ipamorelin (18-450 $\mu\text{g/animal}$) increases body weight and longitudinal bone growth in rats.⁴

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