

Product Data Sheet

Product Name: Histrelin (acetate)

Cat. No.: GC43866

Chemical Properties

Cas. No. 220810-26-4

SMILES O=C([C@@H]1CCC(N1)=O)N[C@@H](CC2=CNC=N2)C(N[C@@H](CC3=CNC4=C3C=CC=C4)C(N[C@@H](CO)C(N[C@@H](CC5=CC=C(O)C=C5)C(N[C@@H](CC6=CN(CC7=CC=CC=C7)C=N6)C(N[C@@H](CC(C)C)C(N[C@@H](CCCNC(N)=N)C(N8CCC[C@H]8C(NCC)=O)=O)=O)=O)=O)=O.OCC(=O)C

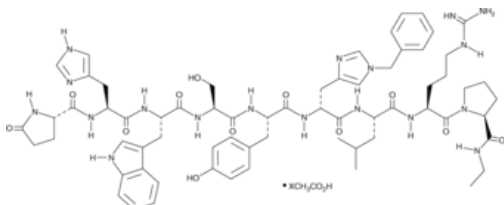
Formula $C_{66}H_{86}N_{18}O_{12} \cdot XC_2H_4O_2$ M.Wt 1323.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 0.25 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

Histrelin is a synthetic gonadotropin-releasing hormone (GNRH) agonist that binds to the GNRH receptor (GNRHR; $K_i = 0.2$ nM in CHO cells expressing the human receptor). It stimulates release of oxytocin and vasopressin ex vivo from the isolated rat hypothalamo-neurohypophyseal system at a concentration of 100 nM. In vivo, the initial dose of histrelin (100 µg) stimulates acute increases in luteinizing hormone (LH), follicle-stimulating hormone (FSH), and testosterone serum levels (50-, 2.5-, and 15-fold, respectively), while chronic treatment leads to 95% decreases in LH and FSH responses in rhesus monkeys. Formulations containing histrelin have been used in the treatment of advanced prostate cancer and central precocious puberty.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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