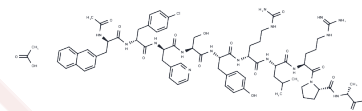


Cetorelix Acetate

Chemical Properties

CAS No. :	145672-81-7
Formula:	C70H92ClN17O14.xC2H4O2
Molecular Weight:	1491.11
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cetorelix Acetate is gonadotropin-releasing hormone (GnRH) receptor antagonist with an IC50 of 1.21 nM.
Targets(IC50)	GNRH Receptor
In vitro	GnRH-I antagonist Cetorelix inhibited growth of ES-2 cell line only at 1000 ng/ml. The incubation of ES-2 ovarian cancer cells in vitro with an GnRH-I antibody inhibited cell proliferation in a time and concentration-dependent manner. GnRH-I may function as an autocrine growth factor in this ovarian cancer cell line [1].
In vivo	Cetorelix inhibits the activation of hGnRHR and a downstream luciferase reporter gene in murine LTK- cells by the GnRHR agonist [D-Trp6]GnRH (IC50 = 1.2 nM). In vivo, cetorelix (60 µg per day) reduces tumor volume to 35% of control and decreases serum luteinizing hormone levels by 50% in a human epithelial ovarian cancer mouse xenograft model[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (33.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6706 mL	3.3532 mL	6.7064 mL
5 mM	0.1341 mL	0.6706 mL	1.3413 mL
10 mM	0.0671 mL	0.3353 mL	0.6706 mL
50 mM	0.0134 mL	0.0671 mL	0.1341 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gründker, Carsten, Emons, Günter. Role of gonadotropin-releasing hormone (GnRH) in ovarian cancer[[]].

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Yano T, Pinski J, Halmos G, et al. Inhibition of growth of OV-1063 human epithelial ovarian cancer xenografts in nude mice by treatment with luteinizing hormone-releasing hormone antagonist SB-75.[[]]. Proceedings of the National Academy of Sciences, 1994, 91(15):7090-7094.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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