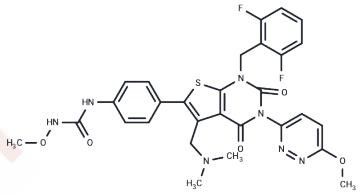
Data Sheet (Cat.No.T3630)

TargetMol

Relugolix

Chemical Properties



CAS No. : 737789-87-6

Formula: C29H27F2N7O5S

Molecular Weight: 623.63

Storage: Keep away from moisture,Keep away from direct sunlight,Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Relugolix (RVT-601) is an orally available, non-peptide gonadotropin-releasing hormone (GnRH or luteinizing hormone-releasing hormone (LHRH)) antagonist, with potential antineoplastic activity. Relugolix competitively binds to and blocks the GnRH receptor in the anterior pituitary gland, which both prevents GnRH binding to the GnRH receptor and inhibits the secretion and release of both luteinizing hormone (LH) and follicle stimulating hormone (FSH). In males, the inhibition of LH secretion prevents the release of testosterone from Leydig cells in the testes. Since testosterone is required to sustain prostate growth, reducing testosterone levels may inhibit hormone-dependent prostate cancer cell proliferation.
Targets(IC50)	GNRH Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (400.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (16.04 mM),Solution. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.6 mM),Sonication is recommended. 10% DMSO+90% Saline: < 10 mg/mL (16.04 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6035 mL	8.0176 mL	16.0351 mL
5 mM	0.3207 mL	1.6035 mL	3.207 mL
10 mM	0.1604 mL	0.8018 mL	1.6035 mL
50 mM	0.0321 mL	0.1604 mL	0.3207 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

MacLean DB et al. J Clin Endocrinol Metab. 2015 Dec;100(12):4579-87.
Nakata D et al. Eur J Pharmacol. 2014 Jan 15;723:167-74.