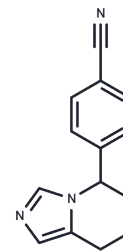


Fadrozole

Chemical Properties

CAS No. :	102676-47-1
Formula:	C ₁₄ H ₁₃ N ₃
Molecular Weight:	223.27
Storage:	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	Fadrozole is a nonsteroidal aromatase inhibitor with potential antineoplastic activity (IC ₅₀ : 6.4 nM)
Targets(IC ₅₀)	Aromatase,Cytochromes P450
In vivo	Fadrozole is a model aromatase inhibitor that shown to suppress estrogen production in the ovaries of fish.
Animal Research	Adult female fathead minnows (<i>Pimephales promelas</i>) were exposed via water to 0, 5, or 50µg fadrozole/L for a time-course of 0.5, 1, 2, 4, and 6h, or 0 or 50µg fadrozole/L for a time-course of 6, 12, and 24h. Examined ex vivo ovarian 17β-estradiol (E2) and testosterone (T) production, and plasma E2 concentrations from each study.

Solubility Information

Solubility	DMSO: 100 mg/mL (447.89 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: 4 mg/mL (17.92 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4789 mL	22.3944 mL	44.7888 mL
5 mM	0.8958 mL	4.4789 mL	8.9578 mL
10 mM	0.4479 mL	2.2394 mL	4.4789 mL
50 mM	0.0896 mL	0.4479 mL	0.8958 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

Schroeder A L , Ankley G T , Habib T , et al. Rapid Effects of the Aromatase Inhibitor Fadrozole on Steroid Production and Gene Expression in the Ovary of Female Fathead Minnows (*Pimephales promelas*)]]. *General and Comparative Endocrinology*, 2017:S0016648017301521.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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