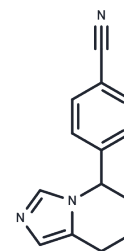


## Fadrozole hydrochloride

## Chemical Properties

CAS No. : 102676-31-3  
 Formula: C<sub>14</sub>H<sub>14</sub>ClN<sub>3</sub>  
 Molecular Weight: 259.73  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*

HCl



## Biological Description

Description	Fadrozole hydrochloride (CGS 16949A) is a model aromatase inhibitor that effectively suppresses estrogen production in fish ovaries.
Targets(IC50)	Aromatase,Cytochromes P450
In vivo	Fadrozole hydrochloride inhibits growth of androstenedione-stimulated mammary D2 cells implanted into thoracic mammary fat pads of mice by 95% when administered at a dose of 0.5 mg per animal per day.

## Solubility Information

Solubility	DMSO: 100 mg/mL (385.02 mM),Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (385.02 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 (15.4 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.8502 mL	19.2508 mL	38.5015 mL
5 mM	0.770 mL	3.8502 mL	7.7003 mL
10 mM	0.385 mL	1.9251 mL	3.8502 mL
50 mM	0.077 mL	0.385 mL	0.770 mL

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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

Tekmal R R , Durgam V R . A novel in vitro and in vivo breast cancer model for testing inhibitors of estrogen biosynthesis and its action using mammary tumor cells with an activated int-5/aromatase gene[J]. Cancer Letters, 1997, 118(1):0-28.

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