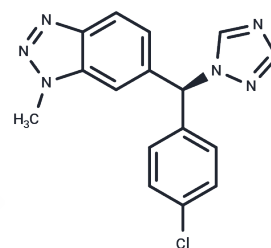


## Vorozole

## Chemical Properties

CAS No. :	129731-10-8
Formula:	C <sub>16</sub> H <sub>13</sub> ClN <sub>6</sub>
Molecular Weight:	324.77
Storage:	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	Vorozole (R83842) is an orally active, potent, and selective nonsteroidal aromatase inhibitor. Vorozole exhibits antitumor activity in vivo and may be used in the study of breast cancer.
Targets(IC50)	Aromatase, Cytochromes P450
In vitro	Vorozole inhibits aromatase activity in FSH-stimulated rat granulosa cells with an IC 50 of 1.4 nM.[3]
In vivo	Vorozole (0.8-1.25 mg/kg; Gavage; daily for 77 days; Female Sprague-Dawley rats) demonstrates antitumor effects and increases serum levels of insulin-like growth factor (IGF)-1 and testosterone.[3] Additionally, Vorozole (0.8-1.25 mg/kg; p.o.; 5 days; Female Sprague-Dawley rats) reduces uterine weight in a dose-dependent manner and effectively suppresses tumor aromatase in ovariectomized nude mice.[3]

## Solubility Information

Solubility	DMSO: 50 mg/mL (153.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.0791 mL	15.3955 mL	30.791 mL
5 mM	0.6158 mL	3.0791 mL	6.1582 mL
10 mM	0.3079 mL	1.5396 mL	3.0791 mL
50 mM	0.0616 mL	0.3079 mL	0.6158 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

Wouters W, et al. Pharmacology of vorozole. *J Steroid Biochem Mol Biol.* 1993 Mar;44(4-6):617-21.

Wiseman LR, et al. Vorozole. *Drugs Aging.* 1997 Sep;11(3):245-50; discussion 251-2.

Lubet RA, et al. Chemopreventive effects of the aromatase inhibitor vorozole (R 83842) in the methylnitrosourea-induced mammary cancer model. *Carcinogenesis.* 1998 Aug;19(8):1345-51.

Pareto D, Biegon A, Alexoff D, Carter P, Shea C, Muench L, Xu Y, Fowler JS, Kim SW, Logan J. In vivo imaging of brain aromatase in female baboons: [<sup>11</sup>C]vorozole kinetics and effect of the menstrual cycle. *Mol Imaging.* 2013 Nov-Dec;12(8). doi: 10.2310/7290.2013.00068. PubMed PMID: 24447618.

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