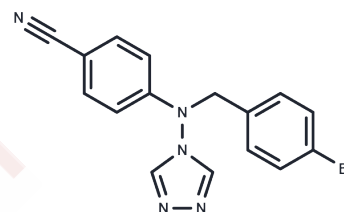


YM 511

Chemical Properties

CAS No. : 148869-05-0
 Formula: C₁₆H₁₂BrN₅
 Molecular Weight: 354.2
 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	YM 511 is a highly specific non-steroidal aromatase inhibitor. YM 511 inhibits aromatase activities in microsomes from rat ovary and human placenta competitively (IC ₅₀ s of 0.4 and 0.12 nM, respectively). YM 511 slightly inhibits production of other steroid hormones. YM 511 has the potential for suppressing estrogen-dependent action research without affecting serum levels of other steroid hormones.
Targets(IC ₅₀)	Aromatase,Cytochromes P450

Solubility Information

Solubility	Ethanol: < 8.86 mg/mL,Sonication is recommended. DMSO: 250 mg/mL (705.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (28.23 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (28.23 mM),Solution. <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	2.8233 mL	14.1163 mL	28.2326 mL
5 mM	0.5647 mL	2.8233 mL	5.6465 mL
10 mM	0.2823 mL	1.4116 mL	2.8233 mL
50 mM	0.0565 mL	0.2823 mL	0.5647 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

M Kudoh, et al. The potent and selective inhibition of estrogen production by non-steroidal aromatase inhibitor, YM511. *J Steroid Biochem Mol Biol.* 1995 Sep;54(5-6):265-71.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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