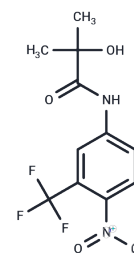


## 2-hydroxy Flutamide

## Chemical Properties

CAS No. :	52806-53-8
Formula:	C <sub>11</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	292.21
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	2-hydroxy Flutamide is competitive inhibition of androgen receptor (AR) for the treatment of prostate cancer
Targets(IC50)	Androgen Receptor,Gap Junction Protein,Akt,Drug Metabolite,Integrin,PI3K
In vitro	The pharmacologically active metabolite 2-hydroxy-flutamide, this principle metabolite increased CYP3A metabolism of midazolam in human microsomes (30%) and hepatocytes (110%)[1].

## Solubility Information

Solubility	DMSO: 25.4 mg/mL (86.92 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: 2 mg/mL (6.84 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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	1mg	5mg	10mg
1 mM	3.4222 mL	17.111 mL	34.222 mL
5 mM	0.6844 mL	3.4222 mL	6.8444 mL
10 mM	0.3422 mL	1.7111 mL	3.4222 mL
50 mM	0.0684 mL	0.3422 mL	0.6844 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

Blobaum A L , Byers F W , Bridges T M , et al. A Screen of Approved Drugs Identifies the Androgen Receptor Antagonist Flutamide and Its Pharmacologically Active Metabolite 2-Hydroxy-Flutamide as Heterotropic Activators of Cytochrome P450 3A In Vitro and In Vivo.[J]. Drug Metabolism & Disposition the Biological Fate of Chemicals, 2015, 43(11):1718.

Gao W , Kim J , Dalton J T . Pharmacokinetics and Pharmacodynamics of Nonsteroidal Androgen Receptor Ligands [J]. Pharmaceutical Research, 2006, 23(8):1641-1658.

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