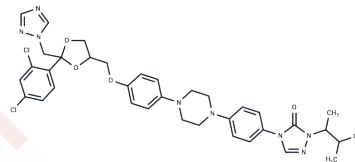


Hydroxy Itraconazole

Chemical Properties

CAS No. :	112559-91-8
Formula:	C ₃₅ H ₃₈ Cl ₂ N ₈ O ₅
Molecular Weight:	721.63
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Hydroxy Itraconazole (R63373) is a triazole compound with antifungal activity for the study of malignant tumors.
Targets(IC50)	Antibacterial,Antifungal,Drug Metabolite
In vitro	Hydroxy Itraconazole is considered to have antifungal effects in vitro. It contains a triazole ring in its structure and is capable of inhibiting the CYP3A enzyme. [1]
In vivo	Plasma concentrations of Hydroxy Itraconazole do not correlate well with ITZ doses, probably because the process of forming Hydroxy Itraconazole is saturated. Factors such as serum albumin and GFR affect the pharmacokinetics of ITZ and Hydroxy Itraconazole. When considering antifungal activity, it is important to look not only at plasma concentrations of ITZ, but also at plasma concentrations of Hydroxy Itraconazole. However, the pharmacokinetics of Hydroxy Itraconazole in immunocompromised patients receiving oral ITZ solutions are similar to those of ITZ. Therefore, since plasma concentrations of ITZ and Hydroxy Itraconazole are highly correlated, determining plasma concentrations of both should be sufficient from a clinical standpoint. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (110.86 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: 3.3 mg/mL (4.57 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	1.3858 mL	6.9288 mL	13.8575 mL
5 mM	0.2772 mL	1.3858 mL	2.7715 mL
10 mM	0.1386 mL	0.6929 mL	1.3858 mL
50 mM	0.0277 mL	0.1386 mL	0.2772 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

Mino Y, et al. Hydroxy-itraconazole pharmacokinetics is similar to that of itraconazole in immunocompromised patients receiving oral solution of itraconazole. Clin Chim Acta. 2013 Jan 16;415:128-32.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481