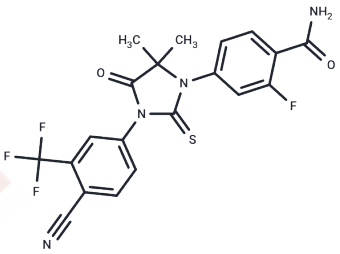
Data Sheet (Cat.No.T19450)

TargetMol

N-desmethyl Enzalutamide

Chemical Properties



CAS No. : 1242137-16-1

Formula: C20H14F4N4O2S

Molecular Weight: 450.41

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	N-desmethyl Enzalutamide (N-desmethyl MDV 3100) is the active Enzalutamide metabolite.It is the active metabolite of Enzalutamide. N-desmethyl Enzalutamide demonstrates primary and secondary pharmacodynamics of similar potency to Enzalutamide and circulates at approximately the same plasma concentrations as enzalutamide.
Targets(IC50)	Androgen Receptor
In vivo	N-desmethyl Enzalutamide, an active metabolite contributing to the clinical effects of Enzalutamide, circulates at similar plasma concentrations to Enzalutamide. The pharmacologically inactive carboxylic acid metabolite circulates at approximately 25% lower plasma concentrations than Enzalutamide [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (111.01 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 (4.44 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2202 mL	11.101 mL	22.202 mL
5 mM	0.444 mL	2.2202 mL	4.4404 mL
10 mM	0.222 mL	1.1101 mL	2.2202 mL
50 mM	0.0444 mL	0.222 mL	0.444 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

Gibbons JA, et al. Pharmacokinetic Drug Interaction Studies with Enzalutamide. Clin Pharmacokinet. 2015 Oct;54 (10):1057-69.