N-desmethyl Enzalutamide

Cat. No.: HY-70002A

CAS No.: 1242137-16-1

Molecular Formula: $C_{20}H_{14}F_4N_4O_2S$

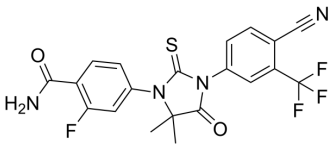
Molecular Weight: 450.41

Target: Androgen Receptor

Pathway: Vitamin D Related/Nuclear Receptor

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (222.02 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2202 mL	11.1010 mL	22.2020 mL
	5 mM	0.4440 mL	2.2202 mL	4.4404 mL
	10 mM	0.2220 mL	1.1101 mL	2.2202 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-desmethyl Enzalutamide is the active metabolite of Enzalutamide.N-desmethyl Enzalutamide 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[1].

IC_{50} & Target

Androgen-receptor[1]

In Vivo

N-desmethyl Enzalutamide is an active metabolite that is thought to contribute to the clinical effects of Enzalutamide because it demonstrates primary and secondary pharmacodynamics of similar potency to Enzalutamide and circulates at approximately the same plasma concentrations as Enzalutamide. The carboxylic acid metabolite is pharmacologically inactive and circulates at approximately 25 % lower plasma concentrations than Enzalutamide[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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