IDH1 Inhibitor 7-d_2

Cat. No.: HY-150238S

CAS No.: 2135309-51-0

Molecular Formula: $C_{22}H_{22}D_2F_3N_7O$

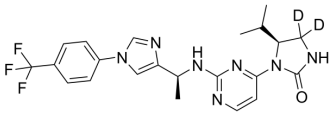
Molecular Weight: 461.48

Target: Isocitrate Dehydrogenase (IDH)

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (216.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1669 mL	10.8347 mL	21.6694 mL
	5 mM	0.4334 mL	2.1669 mL	4.3339 mL
	10 mM	0.2167 mL	1.0835 mL	2.1669 mL

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

BIOLOGICAL ACTIVITY

Description

IDH1 Inhibitor 7-d_2 is the deuterium labeled IDH1 Inhibitor 7 (HY-150238). IDH1 Inhibitor 7 is an IDH1 inhibitor with an IC_{50} of less than 100 nM[1][2].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

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

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Lei Jang, et al. Compound having mutant idh inhibitory activity, preparation method and use thereof. Patent WO2017162133A1.

Caution: Product has not been fully validated for medical applications. For research use only.

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