Idasanutlin-d_3-1

Cat. No.: HY-153939S

Molecular Formula: $C_{31}H_{26}D_3Cl_2F_2N_3O_4$

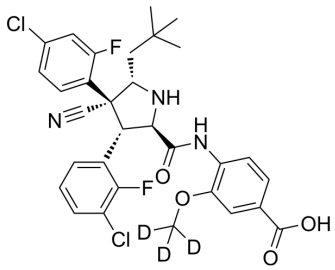
Molecular Weight: 619.5

Target: Isotope-Labeled Compounds

Pathway: Others

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 (161.42 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6142 mL	8.0710 mL	16.1420 mL
	5 mM	0.3228 mL	1.6142 mL	3.2284 mL
	10 mM	0.1614 mL	0.8071 mL	1.6142 mL

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

BIOLOGICAL ACTIVITY

Description

Idasanutlin-d_3-1 (RG7388-d_3-1) is the deuterium labeled Idasanutlin. Idasanutlin is a potent antagonist of MDM2/p53. Idasanutlin inhibits relapsed or refractory acute myeloid leukemia[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 Feb;53(2):211-218.

[2]. Duffy MJ, et al. Targeting p53 for the treatment of cancer. Semin Cancer Biol. 2022 Feb;79:58-67.

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

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