(R,R)-GSK321

Cat. No.: HY-128888

CAS No.: 1816272-19-1

Molecular Formula: $C_{28}H_{28}FN_5O_3$

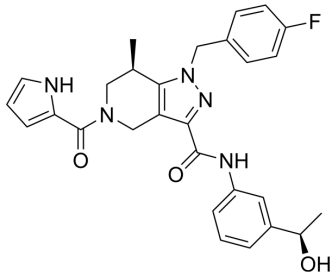
Molecular Weight: 501.55

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 : 250 mg/mL (498.45 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9938 mL	9.9691 mL	19.9382 mL
	5 mM	0.3988 mL	1.9938 mL	3.9876 mL
	10 mM	0.1994 mL	0.9969 mL	1.9938 mL

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

BIOLOGICAL ACTIVITY

Description

(R,R)-GSK321 is a wild-type isocitrate dehydrogenase 1 (WT IDH1) inhibitor with an IC_{50} value of 120 nM. (R,R)-GSK321 as a mutant R132H IDH1 inhibitor, is an isomer of GSK321 with some wild-type cross reactivity[1].

IC_{50} & Target

IDH1

In Vitro

(R,R)-GSK321 (0.1~3 μM; 5 hours; A-498 cells) dose dependent decreases in reductive glutaminolysis[1].

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

REFERENCES

[1]. Jakob CG, U et al. Novel Modes of Inhibition of Wild-Type Isocitrate Dehydrogenase 1 (IDH1): Direct Covalent Modification of His315. J Med Chem. 2018;61(15):6647-6657.

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

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