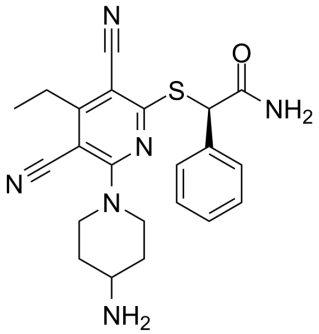
(R)-GSK-3685032

Cat. No.:	HY-139664A
CAS No.:	2170140-50-6
Molecular Formula:	$C_{22}H_{24}N_6OS$
Molecular Weight:	420.53
Target:	DNA Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 60 mg/mL (142.68 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3780 mL	11.8898 mL	23.7795 mL
5 mM	0.4756 mL	2.3780 mL	4.7559 mL
10 mM	0.2378 mL	1.1890 mL	2.3780 mL

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

BIOLOGICAL ACTIVITY

Description

(R)-GSK-3685032 is the R-enantiomer of GSK-3685032. GSK-3685032 is a non-time-dependent, noncovalently, first-in-class reversible DNMT1-selective inhibitor, with an IC_{50} of 0.036 μM. GSK-3685032 induces robust loss of DNA methylation, transcriptional activation, and cancer cell growth inhibition[1][2].

IC_{50} & Target

DNMT1

REFERENCES

[1]. Adams, Nicholas David, et al. Substituted pyridines as inhibitors of DNMT1 and their preparation. WO2017216727A1.

[2]. Pappalardi MB, et al. Discovery of a first-in-class reversible DNMT1-selective inhibitor with improved tolerability and efficacy in acute myeloid leukemia. Nat Cancer. 2021;2(10):1002-1017.

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

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