SOS1 agonist-1

Cat. No.: HY-153606

CAS No.: 2245237-61-8

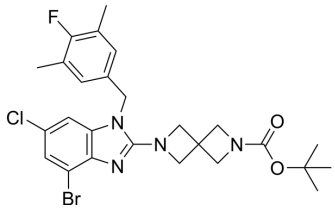
Molecular Formula: $C_{26}H_{29}BrClFN_4O_2$

Molecular Weight: 563.89

Target: Others

Pathway: Others

Storage: -20°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 : 25 mg/mL (44.33 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7734 mL	8.8670 mL	17.7340 mL
	5 mM	0.3547 mL	1.7734 mL	3.5468 mL
	10 mM	0.1773 mL	0.8867 mL	1.7734 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SOS1 agonist-1 (compound 79) is an agonist for the Son of sevenless homologue SOS1. SOS1 is a guanine nucleotide exchange factor that catalyzes the exchange of GDP to GTP on RAS and regulates RAS activation. SOS1 agonists increase nucleotide exchange on RAS, enhance cellular RAS-GTP levels, and trigger biphasic signaling changes in ERK1/2 phosphorylation. Play an anti-cancer role[1].

IC_{50} & Target

Son of sevenless homologue 1 (SOS1)[1]

REFERENCES

[1]. Hodges TR, Abbott JR, Little AJ, Sarkar D, Salovich JM, Howes JE, Akan DT, Sai J, Arnold AL, Browning C, Burns MC, Sobolik T, Sun Q, Beesetty Y, Coker JA, Scharn D, Stadtmueller H, Rossanese OW, Phan J, Waterson AG, McConnell DB, Fesik SW. Discovery and Structure-Based Optimization of Benzimidazole-Derived Activators of SOS1-

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA