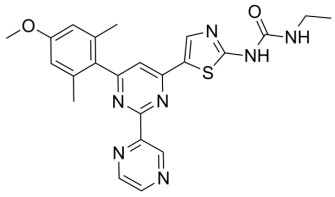
LIMK1 inhibitor BMS-4

Cat. No.:	HY-128062
CAS No.:	905298-84-2
Molecular Formula:	$C_{23}H_{23}N_7O_2S$
Molecular Weight:	461.54
Target:	LIM Kinase (LIMK)
Pathway:	Cell Cycle/DNA Damage

Storage:

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



BIOLOGICAL ACTIVITY

Description	LIMK1 inhibitor BMS-4 is a LIM Kinase (LIMK) inhibitor targeting to LIMK1/2. LIMK1 inhibitor BMS-4 inhibits phosphorylation of cofilin, the LIMK substrate. However, LIMK1 inhibitor BMS-4 is noncytotoxic on A549 cells[1][2].
IC_{50} & Target	LIMK1 7.25 (pIC_{50}) LIMK2 6.87 (pIC_{50})
In Vitro	LIMK1 inhibitor BMS-4 (compound 4) (0.014-10 μM; 24 h) inhibits LIMKs in vitro without affecting A549 cell survival or proliferation[1]. LIMK1 inhibitor BMS-4 (0.014-1 μM; 2 h) inhibits phosphorylation of the LIMK substrate cofilin in A549 human lung cancer cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Collins R, et al. Comparative Analysis of Small-Molecule LIMK1/2 Inhibitors: Chemical Synthesis, Biochemistry, and Cellular Activity. J Med Chem. 2022 Oct 27;65(20):13705-13713.

[2]. Ross-Macdonald P, et al. Identification of a nonkinase target mediating cytotoxicity of novel kinase inhibitors. Mol Cancer Ther. 2008 Nov;7(11):3490-8.

[3]. Collins R, et al. Comparative Analysis of Small-Molecule LIMK1/2 Inhibitors: Chemical Synthesis, Biochemistry, and Cellular Activity. J Med Chem. 2022 Oct 27;65(20):13705-13713.

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