Ruserontinib

®

MedChemExpress

Cat. No.:	HY-120590				
CAS No.:	1350544-93-2				
Molecular Formula:	$C_{24}H_{29}N_{9}$				
Molecular Weight:	443.55				
Target:	EGFR; FLT3; Bcr-Abl				
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2545 mL	11.2727 mL	22.5454 ml
Stock Solutions	5 mM	0.4509 mL	2.2545 mL	4.5091 mL
	10 mM	0.2255 mL	1.1273 mL	2.2545 mL

Description	Ruserontinib (SKLB1028) is an orally active multikinase inhibitor of EGFR, FLT3 and Abl, with an IC ₅₀ value of 55 nM for human FLT3, and has antitumor activity ^[1] .
In Vitro	Ruserontinib (SKLB1028) can significantly inhibit the growth of mf4-11 cells expressing FLT3-ITD with IC ₅₀ value of 0.002 μ M, inhibit the proliferation of RS4-11 cells expressing wt-FLT3 with IC ₅₀ value of 0.790 μ M, and inhibit Ba The IC ₅₀ value for the growth of /F3 cells is 0.01 μ M, and the IC ₅₀ value for inhibiting the growth of K562 cells expressing the Bcr-Abl mutant is 0.190 μ M ^[1] . Ruserontinib (SKLB1028) (0-100 nM, 20 h) causes a dose-dependent decrease in the level of pro-caspase-3 in MV4-11 cells, while a dose-dependent increase in the level of the cleaved caspase-3 fragment, and can be dose-dependent Inhibits phosphorylation of STAT5 and Erk1/2 in a dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ruserontinib (SKLB1028) (5-70 mg/kg, orally once daily, 18 days) have anti-tumor effect in MV4-11 and K562 xenograft NOD-SCID models ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MV4-11 and K562 xenograft NOD-SCID models ^[1]
Dosage:	5, 10, 20 mg/kg,70 mg/kg
Administration:	orally once daily, 18 days
Result:	Prevented tumor growth at a dose of 5 mg/kg, and caused rapid and complete tumor regression in both groups of mice at a dose of 10 or 20 mg/kg. Significantly inhibited the proliferation and induced apoptosis of MV4-11 and K562 cells a a dose of 70 mg/kg.

REFERENCES

[1]. Z-X Cao, et al. SKLB1028, a novel oral multikinase inhibitor of EGFR, FLT3 and Abl, displays exceptional activity in models of FLT3-driven AML and considerable potency in models of CML harboring Abl mutants. Leukemia. 2012 Aug;26(8):1892-5.

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

 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