

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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JI-101

Cat. No.:	HY-16265		
CAS No.:	900573-88-8		
Molecular Formula:	$C_{22}H_{20}BrN_5O_2$		
Molecular Weight:	466.33		
Target:	Ephrin Receptor; PDGFR; VEGFR		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (214.44 mM) * "≥" means soluble, but saturation unknown.					
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.1444 mL	10.7220 mL	21.4440 mL	
	5 mM	0.4289 mL	2.1444 mL	4.2888 mL		
	10 mM	0.2144 mL	1.0722 mL	2.1444 mL		
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo		one by one: 10% DMSO >> 40% PEC g/mL (5.36 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution					
		one by one: 10% DMSO >> 90% cor g/mL (5.36 mM); Clear solution	n oil			

BIOLOGICAL ACTIV	ΙΤΥ	
Description	JI-101 is an orally available m	ulti-kinase inhibitor of VEGFR2, PDGFR β and EphB4 with potent anti-cancer activity.
IC ₅₀ & Target	VEGFR2	PDGFRβ
In Vitro		all preclinical and human liver microsomes. The % metabolized is ranged between 3.03-3.95 r microsomes. The % metabolized is relatively higher in mice liver microsomes followed by dog,

Product Data Sheet

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NH₂ √ N



	human and rat liver microsomes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	JI-101excreted through bile along with its mono- and di-hydroxy metabolites. Following oral administration, JI-101 is rapidly absorbed, reaching C _{max} within 2 h. The t _{1/2} of JI-101 with intravenous and oral route is found to be 1.75±0.79 and 2.66±0.13 h, respectively. The Cl and Vd by intravenous route for JI-101 are found to be 13.0±2.62 mL/min/kg and 2.11±1.42 L/kg, respectively. The tissue distribution of JI-101 is extensive with rapid and preferred uptake into lung tissue. Overall, the oral bioavailability of JI-101 is 55% and the primary route of elimination for JI-101 is feces ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	Rats: Pharmacokinetics and bioavailability assessment of JI-101 are evaluated in a preliminary parallel-group study in male S.D. rats. Four rats (195–210 g) per route receive JI-101 at a dose of 3 and 30 mg/kg for i. v. (via tail vein) and oral dose (by
	gavage), respectively. Serial blood samples (100 μL) are collected from retro-orbital plexus at pre-dose, 0.12 (i. v. only) 0.25,
	0.5, 1, 2, 4, 8, 10 (oral only) and 24 h. Blood samples are collected in tubes containing K ₂ EDTA as the anticoagulant and
	centrifuged for 5 min maintained at 4 °C for plasma separation and stored frozen at –80±10 °C until analysis ^[1] .
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gurav SD, et al. Pharmacokinetics, tissue distribution and identification of putative metabolites of JI-101 - a novel triple kinase inhibitor in rats. Arzneimittelforschung. 2012 Jan;62(1):27-34.

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

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