BMS-605541

Cat. No.:	HY-120640						
CAS No.:	639858-32-5						
Molecular Formula:	C ₁₉ H ₁₇ F ₂ N ₅ OS						
Molecular Weight:	401.43						
Target:	VEGFR; PDGFR						
Pathway:	Protein Tyrosine Kinase/RTK						
Storage:	Powder	-20°C	3 years				
		4°C	2 years				
	In solvent	-80°C	6 months				
		-20°C	1 month				

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (83.03 mM; ultrasonic and warming and heat to 60°C)							
Preparing Stock Solu		Solvent Mass Concentration	1 mg 5 mg		10 mg			
	Preparing Stock Solutions	1 mM	2.4911 mL	12.4555 mL	24.9109 mL			
		5 mM 0.4982 mL		2.4911 mL	4.9822 mL			
		10 mM	0.2491 mL	1.2455 mL	2.4911 mL			
	Please refer to the solubility information to select the appropriate solvent.							
In Vivo	/ivo 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution							
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution							

DIOLOGICAL ACTIV						
Description	BMS-605541 is a selective and orally active inhibitor of VEGFR-2 kinase with an IC ₅₀ value of 23 nM and K _i value of 49 nM. BMS-605541 inhibits the activity of Flk-1, VEGFR-1 and PDGFR-β with IC ₅₀ values of 40 nM, 400 nM and 200 nM, respectively. BMS-605541 can be used for cancer research ^[1] .					
IC ₅₀ & Target	VEGFR-2 23 nM (IC ₅₀)	VEGFR-2 49 nM (Ki)	Flk-1 40 nM (IC ₅₀)	VEGFR-1 400 nM (IC ₅₀)		
	PDGFR-β 200 nM (IC ₅₀)					

Product Data Sheet

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In Vitro	BMS-605541 (Compound 14) inhibits the growth of HUVECs through VEGF with an IC ₅₀ value of 25 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.										
In Vivo	BMS-605541 (12.5-180 mg/kg; once a day or twice a day for 14 days) has anti-tumor activity in thymic mice subcutaneously implanted with L2987 and HCT-116 xenografts ^[1] . Pharmacokinetic (PK) parameters of BMS-605541 ^[1]										
	Species	Administration manner	Dose (mg/kg)	C _{max} (μM)	T _{max} (h)	AUC (µM∙h)	T _{1/2} (h)	MRT (h)	Cl (mL/min•kg)	V _{ss} (L/kg)	F _{po} (%)
	Mouse	Oral gavage	90	148	0.5	649 (0-24 h)	1.7	3.4			100
	Mouse II	ntravenous injection	10						11.8	1.7	100
	Rat	Oral gavage	50	44.0	2.0	202	2.2	3.5			100
	Rat li	ntravenous injection	10						13.6	1.1	100
	Cyno	Oral gavage	5	8.0	0.75	28.5	7.1	7.9			52
	Cyno li	ntravenous injection	1						3.9	1.6	52
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.										

REFERENCES

[1]. Borzilleri RM, et al. Discovery and evaluation of N-cyclopropyl- 2,4-difluoro-5-((2-(pyridin-2-ylamino)thiazol-5- ylmethyl)amino)benzamide (BMS-605541), a selective and orally efficacious inhibitor of vascular endothelial growth factor receptor-2. J Med Chem. 2006 Jun 29;49(13):3766-9.

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