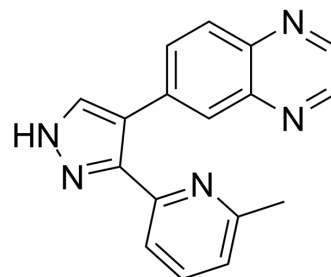


BIO-013077-01

Cat. No.:	HY-118810		
CAS No.:	746667-48-1		
Molecular Formula:	C ₁₇ H ₁₃ N ₅		
Molecular Weight:	287.32		
Target:	TGF-β Receptor		
Pathway:	TGF-beta/Smad		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (348.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.4804 mL	17.4022 mL	34.8044 mL
		5 mM	0.6961 mL	3.4804 mL	6.9609 mL
10 mM		0.3480 mL	1.7402 mL	3.4804 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.70 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.70 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	BIO-013077-01 is a pyrazole TGF-β inhibitor ^[1] .
In Vitro	<p>A wide range of cellular functions such as cell proliferation, differentiation, adhesion, migration, and apoptosis are regulated by TGF-β superfamily members. The TGF-βs include the three major TGF-β isoforms, TGF-β1, TGF-β2, and TGF-β3 which are expressed in mammals. TGF-β transduces signals through a complex of two related but structurally and functionally distinct serine/threonine kinase receptors, termed type I and type II. Deregulation of TGF-β signaling has been also implicated in various human diseases including cancer, pancreatic diseases, and hematological malignancies^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Jin CH, et al. Synthesis and biological evaluation of 1-substituted-3(5)-(6-methylpyridin-2-yl)-4-(quinoxalin-6-yl)pyrazoles as transforming growth factor- β type 1 receptor kinase inhibitors. Eur J Med Chem. 2011 Sep;46(9):3917-25.

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

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