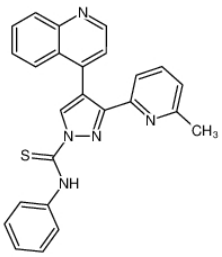
A 83-01 (CAS: 909910-43-6)

Catalog #: EBC51012

Biological Activity

Synonyms	ALK5 Inhibitor IV
Chemical Name	3-(6-Methylpyridin-2-yl)-N-phenyl-4-quinolin-4-ylpyrazole-1-carbothioamide
Application	A 83-01 is a small-molecule inhibitor of activin receptorlike kinase (ALK)-5
CAS No.	909910-43-6
Purity	≥98.0%
Molecular Weight	421.52
Molecular Formula	$C_{25}H_{19}N_5S$
Shipping	Gel Pack
Storage	Store at -20° C
Target & IC_{50}	ALK5 kinase: IC50 = 12 nM
	ALK4: IC50 = 45 nM
	ALK7: IC50 = 7.5 nM

Molecular Structure



Solubility

DMSO: 10mg/mL (23.72 mM)

PS: < 1 mg/ml refers to the product insoluble

Description

A 83-01 is a selective inhibitor of TGF-β type I receptor ALK5 kinase, type I activin/nodal receptor ALK4 and type I nodal receptor ALK7 (IC50 values are 12, 45 and 7.5 nM respectively). A 83-01 blocks phosphorylation of Smad2 and inhibits TGF-β-induced epithelial-to-mesenchymal transition. A 83-01 lonly weakly inhibits ALK-1, -2, -3, -6 and MAPK activity. A 83-01 is more potent than SB 431542. Fibroblasts can be reprogrammed by A 83-01 into alternative lineages.

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