



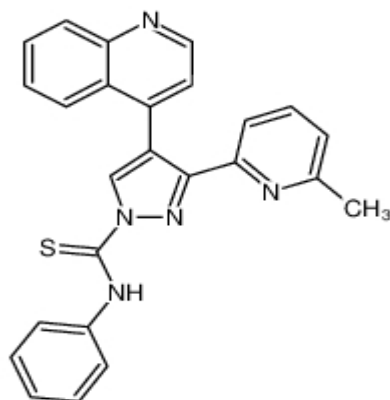
A 83-01 (CAS: 909910-43-6)

Catalog #: EBC51012

Biological Activity

Synonym(s)	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 Number	909910-43-6
Purity	≥98.0%
Molecular Weight	421.52
Molecular Formula	C ₂₅ H ₁₉ N ₅ S
SMILES	<chem>CC1=CC=CC(=N1)C2=NN(C=C2C3=CC=NC4=CC=CC=C34)C(=S)NC5=CC=CC=C5</chem>
Target & IC50	ALK5 kinase: IC50 = 12 nM; ALK4: IC50 = 45 nM; ALK7: IC50 = 7.5 nM
Shipping	Gel Pack
Storage	Store at -20° C

Molecular Structure



Solubility

DMSO: 10mg/mL (23.72 mM)

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

Product 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 only 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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