Catalog # 10-1492

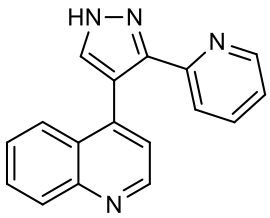
LY-364947

396129-53-6

HTS-466284

4-(3-Pyridin-2-yl-1H-pyrazol-4-yl)quinolone

Lot # X105313



Selective ALK5 inhibitor, IC_{50} = 59, 400 and 1400 nM for TGF-β RI, TGF-β RII and MLK-7K, respectively[1]. Inhibits Smad2 phosphorylation induced by TGF-β as well as fibronectin expression and MDA-MB-231 cell invasion[2]. Abolishes resistance of glioblastoma-initiating cells to radiation[3]. Cell permeable.

1) Sawyer *et al*. (2003), *Synthesis and activity of new aryl-and hetero-aryl-substituted pyrazole inhibitors of the transforming growth factor-beta type I receptor kinase domain*; J. Med. Chem., **46** 3953

2) Shiou *et al*. (2006), *Smad4-dependent regulation of urokinase plasminogen activator secretion and RNA stability associated with invasiveness by autocrine and paracrine transforming growth factor-beta*; J. Biol. Chem., **281** 33971

3) Hardee *et al*. (2012), *Resistance of glioblastoma-initiating cells to radiation mediated by the tumor microenvironment can be abolished by inhibiting transforming growth factor-β*; Cancer Res., **72** 4119

PHYSICAL DATA

Molecular Weight:	272.31
Molecular Formula:	$C_{17}H_{12}N_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Brown solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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