



A83-01

Data Sheet

Catalog Number:	MC11069	Product Type:	Small Molecule
Bio-Activity:	ALK inhibitor	CAS #:	909910-43-6
Research Categories:	Stem cells, cancer	Chemical Name:	3-(6-Methyl-2-pyridinyl)-N-phenyl-4-(4-quinoliny)-1H-pyrazole-1-carbothioamide
Solubility:	Soluble in DMSO (up to 20 mg/ml).	Molecular Formula:	C25H19N5S
Purity:	> 98%	Molecular Weight:	421.5
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Potent and selective ALK4, 5 and 7 inhibitor [1,2]. IC50=45, 12 and 7.5 nM respectively. Prevents phosphorylation of Smad2/3 and growth inhibition induced by TGF β 2. Inhibits differentiation of rat induced pluripotent stem cells and increases clonal expansion efficiency [3]. Together with AMI-5, A83-01 enabled Oct4-induced reprogramming of mouse embryonic fibroblasts [4]. Cell permeable. Active in vivo.

References:

- 1) J Vogt et al. Cell Signal. 2011 23:1831
- 2) M Tojo et al. Cancer Sci. 2012 96:791
- 3) W Li et al. Cell Stem Cell 2009 4:16
- 4) X Yuan et al. Stem Cells 2011 29:549

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