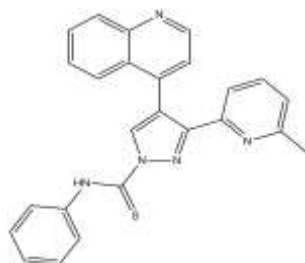


A 83-01

CATALOG #: 1725-1

AMOUNT: 1 mg

STRUCTURE:



ALTERNATE NAME: 3-(6-Methyl-2-pyridinyl)-N-phenyl-4-(4-quinolinyl)-1H-pyrazole-1-carbothioamide

MOLECULAR FORMULA: C₂₅H₁₉N₅S

MOLECULAR WEIGHT: 421.52

CAS NUMBER: 909910-43-6

APPEARANCE: Pale yellow solid

SOLUBILITY: DMSO (50 mM)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C

DESCRIPTION: 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). Blocks phosphorylation of Smad2 and inhibits TGF- β -induced epithelial-to-mesenchymal transition. Helps maintain homogeneity and long-term *in vitro* self-renewal of human induced pluripotent stem cells (iPSCs).

RELATED PRODUCTS:

- TGF- β 1 Polyclonal Antibody (**Cat. No. 5559-100**)
- TGF- β 2 Polyclonal Antibody (**Cat. No. 5343R-100**)
- TGF- β 3 Polyclonal Antibody (**Cat. No. 5344R-100**)
- TGF- β Receptor I Polyclonal Antibody (**Cat. No. 5636R-100**)
- TGF- β Receptor II Polyclonal Antibody (**Cat. No. 5639-100**)
- TGF- β Receptor III Polyclonal Antibody (**Cat. No. 5642-100**)
- TGF- β 1, Human Recombinant (**Cat. No. 4342-5**)
- TGF- β 2, Human Recombinant (**Cat. No. 4340-5, 50, 1000**)
- TGF- β 2, Human Recombinant (**Cat. No. 4343-5**)
- TGF- β 3, Human Recombinant (**Cat. No. 4344-5**)
- SB-431542 (**Cat. No. 1674-1**)

REFERENCE:

Li, W., *et al.* (2009). *Cell Stem Cell* **4**, 16-19; Tojo, M., *et al.* (2005). *Cancer Res.* **96**, 791-800.

HANDLING:

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

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