A 83-01
Catalogue Number: 9094360

Product Information

**Synonyms:** A-83-01; A83-01; ALK5 Inhibitor IV; Transforming Growth Factor-beta Type I Receptor Kinase Inhibitor IV, A083

**Chemical Name:** 3-(6-methylpyridin-2-yl)-N-phenyl-4-quinolin-4-ylpyrazole-1-carbothioamide

**Molecular Formula:** C_{25}H_{19}N_{5}S

**Molecular Weight:** 421.5

**CAS Number:** 909910-43-6

**Purity:** ≥95%

**Applications:** FA

**Formulation:** Crystalline solid

**Storage:** Product should be kept at -20°C.

Description

A 83-01 is a potent activating receptor-like kinase inhibitor (ALK4 IC50 45nM, ALK5 IC50 12nM, ALK7 IC50 7.5nM). It is a more potent inhibitor of ALK5 than SB 431542 and is reported to inhibit Smad signaling and epithelial-to-mesenchymal transition by transforming growth factor-beta. However, A 83-01 had little or no effect on bone morphogenetic protein type I receptors, p38 mitogen-activated protein kinase, or extracellular regulated kinase. It is used to inhibit differentiation in iPSCs and maintain in vitro cellular self-renewal.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO. DMSO up to 14mg/ml.

References

