



LKT Laboratories, Inc.

A 83-01

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Product Information

Product ID A001001

CAS No. 909910-43-6

Chemical Name 3-(6-Methyl-2-pyridinyl)-N-phenyl-4-(4-quinolinyl)-1H-pyrazole-1-carbothioamide

Synonym A83-01; ALK5 Inhibitor IV; 1H-Pyrazole-1-carbothioamide,3-(6-methyl-2-pyridinyl)-N-phenyl-4-(4-quinolinyl)-

Formula C₂₅H₁₉N₅S

Formula Wt. 421.52

Melting Point

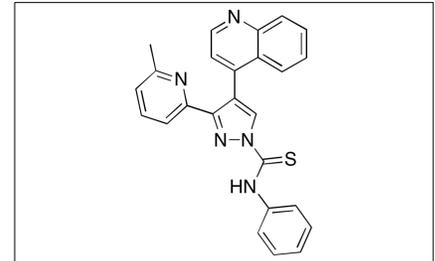
Purity ≥98%

Solubility Soluble in DMSO
1mg/mL in ethanol
2.5mg/mL in ethyl acetate

Store Temp -20° C

Ship Temp Ambient

Description A 83-01 is a TGFbeta receptor inhibitor found to suppress over-expression of pro-fibrogenic factors. When applied in concert with Y27632 and CHIR99021, A 83-01 treatment resulted in transformation of rat mature hepatocytes into proliferative bipotent cells. A study on a mouse model treated with A 83-01 resulted in decrease in cardiac fibrosis and increase in myocardial viability. Topical application of A 83-01 to second-degree burns in rat skin reduced wound contraction during healing without delaying the wound closure.



Bulk quantities available upon request

Product ID	Size
A001001	5 mg
A001001	25 mg
A001001	100 mg

References Katsuda T, Kawamata M, Hagiwara K, et al. Conversion of terminally committed hepatocytes to culturable bipotent progenitor cells with regenerative capacity. *Cell Stem Cell*. 2017 Jan 5;20(1):41-55. PMID: 27840021.

Wang H, Liu S, Wang Y, et al. Nod-like receptor protein 3 inflammasome activation by Escherichia coli RNA induces transforming growth factor beta 1 secretion in hepatic stellate cells. *Bosn J Basic Med Sci*. 2016 Jan 14;16(2):126-131. PMID: 26773180.

Nishino Y, Murakami M, Funaba M. Expression and role of the TGF-beta family in glial cells infected with Borna disease virus. *Microbes Infect*. 2016 Feb;18(2):128-136. PMID: 26482505.

Ho YS, Tsai WH, Lin FC, et al. Cardioprotective actions of TGFbetaRI inhibition through stimulating autocrine/paracrine of survivin and inhibiting Wnt in cardiac progenitors. *Stem Cells*. 2016 Feb;34(2):445-455. PMID: 26418219.

Sun X, Kim YH, Phan TN, et al. Topical application of ALK5 inhibitor A-83-01 reduces burn wound contraction in rats by suppressing myofibroblast population. *Biosci Biotechnol Biochem*. 2014;78(11):1805-1812. PMID: 25351330.

Nishino Y

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.