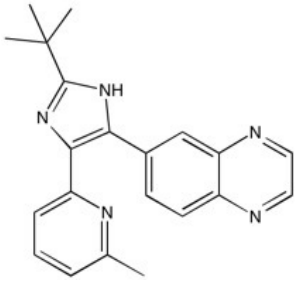
Tribioscience

SB-525334, ALK5 (TGF bR1) inhibitor

Catalog	Unit
TBI2983-5MG	5 mg
TBI2983-25MG	25 mg

Product Details



Formal Name: 6-[2-(1,1-Dimethylethyl)-5-(6-methyl-2-pyridinyl)-1H-imidazol-4-yl]quinoxaline
Molecular Formula: $C_{21}H_{21}N_5$
Formula Weight: 343.42
CAS Number: 356559-20-1
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 30 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.

Applications

ALK5 (TGF bR1) inhibitor

Functions

Potent and selective inhibitor of the transforming growth factor beta 1 receptor, activin receptor-like kinase (ALK5), IC50 = 14.3 nM and ALK4 (IC50 = 58.5 nM) with no activity at ALK2, 3 and 61. Blocks fibrosis markers and renal injury in the puromycin-induced nephritis model. It causes significant attenuation in Smad2/3 nuclear translocation, decrease in CTGF-expressing cells, myofibroblast proliferation and type 1 collagen deposition resulting in an overall attenuation in bleomycin-induced pulmonary fibrosis. Sensitizes drug-resistant pancreatic cancer cells to gemcitabine. Cell permeable and active in vivo.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.

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