

Product Name: SB 505124

Catalog No.: 3263

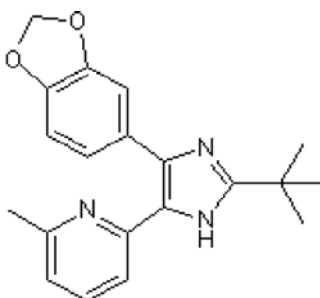
Batch No.: 2

CAS Number: 694433-59-5

IUPAC Name: 2-[4-(1,3-Benzodioxol-5-yl)-2-(1,1-dimethylethyl)-1*H*-imidazol-5-yl]-6-methyl-pyridine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁N₃O₂
Batch Molecular Weight: 335.4
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Dichloromethane:Methanol: 2M NH₃[100:5])
HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.62	6.31	12.53
Found	71.18	6.3	12.56

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

SB 505124 is a selective inhibitor of transforming growth factor- β type I receptor (ALK5), ALK4 and ALK7 (IC_{50} values are 47 and 129 nM for ALK5 and ALK4 respectively). Selectively inhibits signaling from TGF- β and activin; does not inhibit other ALK family members.

Physical and Chemical Properties:

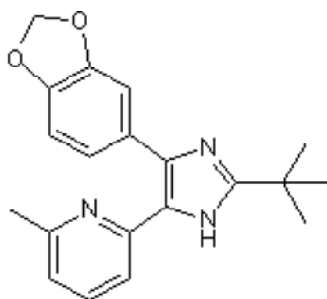
Batch Molecular Formula: C₂₀H₂₁N₃O₂

Batch Molecular Weight: 335.4

Physical Appearance: Pale yellow solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Noma *et al* (2008) The essential role of fibroblasts in esophageal squamous cell carcinoma-induced angiogenesis. *Gastroenterology* **134** 1981. PMID: 18439605.

Hu *et al* (2005) Reactive oxygen species production via NADPH oxidase mediates TGF- β -induced cytoskeletal alterations in endothelial cells. *Am.J.Physiol.Renal Physiol.* **289** F816. PMID: 16159901.

Byfield *et al* (2004) SB-505124 is a selective inhibitor of transforming growth factor- β type I receptors ALK4, ALK5, and ALK7. *Mol.Pharmacol.* **65** 744. PMID: 14978253.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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