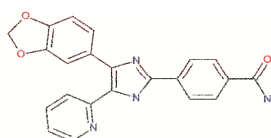


Product Sheet

SB 431542, ALK-4, -5, -7 Inhibitor

Catalog #	SB-002; SB-010; SB-050
Description	<p>A selective inhibitor of the transforming growth factor-β (TGF-β) type I receptor activin receptor-like kinase ALK5 (IC_{50} = 94 nM), and the related ALK4 and ALK7.</p> <p>4-(5-BENZOL[1,3]DIOXOL-5-YL-4-PYRLDIN-2-YL-1H-IMIDAZOL-2-YL)-BENZAMIDE</p> <p><i>Ref: Laping et al. Inhibition of transforming growth factor (TGF)-β1-induced extracellular matrix with a novel inhibitor of the TGF-β type I receptor kinase activity: SB-431542. Mol.Pharmacol. 62 58, 2002.</i></p> <p><i>Inman et al. SB-431542 is a potent and specific inhibitor of transforming growth factor-β superfamily type I activin receptor-like kinase (ALK) receptors ALK4, ALK5, and ALK7. Mol.Pharmacol. 62 65, 2002.</i></p>
Formulation	Powder
Reconstitution	Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The compound is soluble in DMSO.
Stability	The powder is stable for at least 2 year if stored at -20 degree C. The dissolved compound is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -20 degree C for longer term. Protect from light.
Purity	Greater than 98% as determined by LC/MS analysis. LC/MS and/or NMR data available upon request.
Biological Activity	Not determined.

Structural Info



MW: 384.39

Formula: C₂₂H₁₆N₄O₃

Solubility: Soluble in DMSO at 10 mM.

CAS: 301836-41-9

For Research Use Only. Not for Use in Humans.