

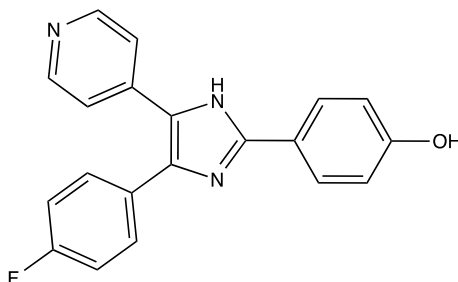
Catalog # 10-2172

SB 202190

CAS# 152121-30-7

4-[4-(4-Fluorophenyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]phenol

Lot # X101523



Potent and selective p38 MAP kinase inhibitor acting at the ATP site¹. Selectively inhibits the p38 α and β isoforms (IC₅₀= 50 and 100 nM for SAPK2a/p38 and SAPK2b/p38 β 2 respectively)². Effectively blocks LPS-induced gene expression in monocytes³. Induces apoptosis⁴. Cell permeable.

- 1) Young *et al.* (1997), *Pyridinyl imidazole inhibitors of p38 mitogen-activated protein kinase bind in the ATP site*; J. Biol. Chem., **272** 12116
- 2) Davies *et al.* (2000), *Specificity and mechanism of action of some commonly used protein kinase inhibitors*; Biochem. J., **351** 95
- 3) Manthey *et al.* (1998), *SB202190, a selective inhibitor of p38 mitogen-activated protein kinase, is a powerful regulator of LPS-induced mRBAs in monocytes*; J. Leukoc. Biol., **64** 409
- 4) Nemoto *et al.* (1998), *Induction of apoptosis by SB202190 through inhibition of p38beta mitogen-activated protein kinase*; J. Biol. Chem., **273** 16415

PHYSICAL DATA

Molecular Weight:	331.35
Molecular Formula:	C ₂₀ H ₁₄ N ₃ OF
Purity:	98% by TLC [10% CH ₃ OH in CH ₂ Cl ₂ , R _f =0.25] NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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