

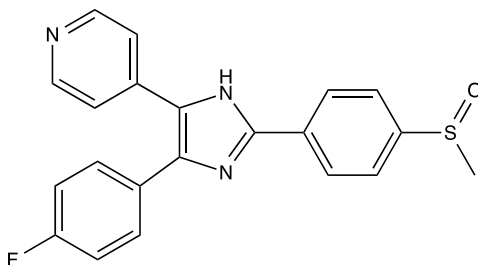
**Catalog # 10-2173**

**SB 203580**

CAS# 152121-47-6

4-(4-Fluorophenyl)-2-(4-methylsulfinylphenyl)-5-(4-pyridyl)imidazole

Lot # X101413



A potent and selective inhibitor of p38 MAP kinase,  $IC_{50}$ =50 and 500 nM for p38 and p38 $\beta$ 2 respectively. No other kinases (in a panel of 30) were significantly inhibited including p38 $\gamma$  and  $\delta$  at 10  $\mu$ M<sup>2</sup>. A potent inhibitor of inflammatory cytokine production ( $IC_{50}$ =15-25 mg/kg in mice and rats) in animal models of arthritis, bone resorption, endotoxin shock and immune function<sup>3</sup>.

- 1) Cuenda *et al.* (1995), *SB 203580 is a specific inhibitor of a MAP kinase homologue which is stimulated by cellular stresses and interleukin-1*; FEBS Lett., **364** 229
- 2) Davies *et al.* (2000), *Specificity and mechanism of action of some commonly used protein kinase inhibitors*; Biochem. J., **351** 95
- 3) Badger *et al.* (1996), *Pharmacological profile of SB 203580, a selective inhibitor of cytokine suppressive binding protein/p38 kinase, in animal models of arthritis, bone resorption, endotoxin shock and immune function*; Pharmacol. Exp. Ther., **279** 1453

**PHYSICAL DATA**

Molecular Weight:	377.44
Molecular Formula:	C <sub>21</sub> H <sub>16</sub> N <sub>3</sub> OSF
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml) or Ethanol (up to 10 mg/ml with warming)
Physical Description:	Off-white 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 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**