SB 203580

1. Description

SB 203580 is a highly selective and cell permeable inhibitor of p38 mitogen-activated protein kinase with IC50 values of 50 and 500 nM for p38/SAPK2a and p38/SAPK2b respectively. Displays 100-500-fold selectivity over Lck, GSK3β and Akt/PKB. Shown to inhibit interleukin-2-induced T-cell proliferation, cyclooxygenase-1 and -2 and thromboxane synthase.

2. Product Information

SB 203580: order-no. PKI-SB203, 1 mg, 5 mg
Chemical name: 4-[5-(4-Fluorophenyl)-2-[4-(methylsulfonyl)phenyl]-1H-imidazol-4-yl]pyridine
Formula: C_{21}H_{16}N_{3}FOS
Molecular Weight: 377.4 g/mol
Long Term Storage: -20°C
Purity: >98%
Solubility: soluble in DMSO

3. Product specific literature references:

- Cuenda A, Rouse J, Doza YN, Meier R, Cohen P, Gallagher TF, Young PR, Lee JC. (1995) "SB 203580 is a specific inhibitor of a MAP kinase homologue which is stimulated by cellular stresses and interleukin-1." FEBS Lett. 364(2):229-33


• The sample is for non-clinical in vitro research use only and has not been approved for any other purposes including, without limitation, diagnostic or therapeutic purposes, and use in preparation of food or pharmaceutical products or for administration to humans or animals.