



# Data Sheet

Research Use Only

## Compound Name

SB203580

## Catalog Number

SM32

## Activity

SB203580 is a specific inhibitor of p38-MAPK pathway. SB203580 also inhibits protein kinase B (PKB, also known as Akt) and TLR signaling pathway.

## Purity

>99%

## Formula

$C_{21}H_{16}FN_3OS$

## Solubility

DMSO

## Alternative Names

RWJ 64809, PB 203580, 4-[4-(4-fluorophenyl)-2-[4-methylsulfinyl]phenyl]-1H-imidazol-5-yl]-pyridine

## Effect

SB203580 inhibits the IL-2-induced proliferation of primary human T cells, murine CT6 T cells, or BAF F7 B cells with an IC<sub>50</sub> of 3-5  $\mu$ M. SB203580 suppresses the development of endometriosis by down-regulating proinflammatory cytokines and proteolytic factors in a mouse model. It is a new reversal agent of P-glycoprotein-mediated multidrug resistance.

## CAS

152121-47-6

## Molecular Weight

377.43

## Stability

Stable at -20°C. Keep away from direct sunlight.

## References

1. Cuenda, A., et al. 1995. FEBS Lett. 364(2): 229-233. PMID: 7750577
2. Lali, FV., et al. 2000. J Biol Chem. 275(10): 7395-7402. PMID: 10702313
3. Jarnicki, AG., et al. 2008. J Immunol. 180(6): 3797-3806. PMID: 18322186