

Catalog	Unit
TBI2173-5MG	5 mg
TBI2173-25MG	25 mg

### Product Details

**Formal Name:** 4-(4-fluorophenyl)-2-(4-methylsulfinylphenyl)-5-(4-pyridyl)imidazolidihydro-imidazole-1-carbonyl]-piperazin-2-one

**Molecular Formula:** C<sub>21</sub>H<sub>16</sub>N<sub>3</sub>OSF

**Formula Weight:** 377.44

**CAS Number:** 152121-47-6

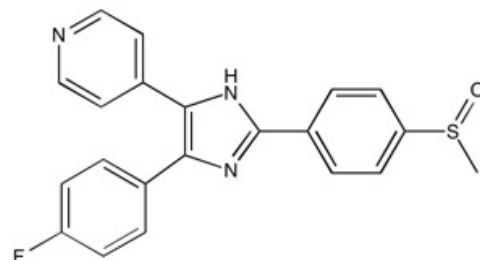
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 100 mg/ml) or in Ethanol (up to 10 mg/ml with warming).

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

p38 MAP kinase inhibitor

### Functions

A potent and selective inhibitor of p38 MAP kinase, IC<sub>50</sub>=50 and 500 nM for p38 and p38β2 respectively. No other kinases (in a panel of 30) were significantly inhibited including p38γ and δ at 10 μM. A potent inhibitor of inflammatory cytokine production (IC<sub>50</sub>=15-25 mg/kg in mice and rats) in animal models of arthritis, bone resorption, endotoxin shock and immune function.

### Application Procedures

First dissolved in DMSO (up to 100 mg/ml) or in Ethanol (up to 10 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

**For research use only.**