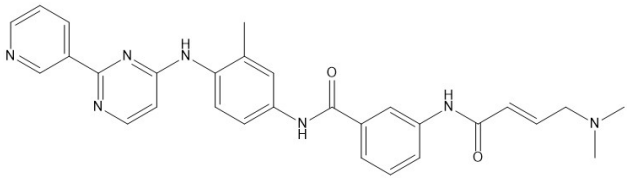
JNK-IN-8, JNK inhibitor

Catalog	Unit
TBI5186-5MG	5 mg
TBI5186-25MG	25 mg

Product Details

Formal Name: 3-[[4-(Dimethylamino)-1-oxo-2-buten-1-yl]amino]-N-[3-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]-benzamide
Alternate Names: JNK Inhibitor XVI
Molecular Formula: $C_{29}H_{29}N_7O_2$
Formula Weight: 507.6
CAS Number: 1410880-22-6
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (45 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

JNK inhibitor

Functions

Irreversible, specific JNK (c-Jun N-terminal Kinase) inhibitor (IC_{50}s = 4.67, 18.7, and 0.98 nM for JNK1, 2, and 3) that forms a covalent bond with a conserved cysteine in the ATP-binding site. Suppresses triple-negative breast cancer (TBNC) cell growth in vitro and in vivo through upregulation of lysosome biogenesis and autophagy. Suppresses inflammation and oxidative stress during LPS-induced acute lung injury in mice. Alleviates cognitive impairment, neuroinflammation, and NLRP3 inflammasome activation in a rat model of acute respiratory distress syndrome (ARDS).

Application Procedures

First dissolved in DMSO (45 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.