

BTB-1, Mitotic kinesin Kif18A inhibitor

Catalog	Unit
TBI1543-10MG	10 mg
TBI1543-50MG	50 mg

Product Details

Formal Name: 4-Chloro-2-nitro-1-(phenylsulfonyl)-benzene

Alternate Names: NSC156750

Molecular Formula: C₁₂H₈ClNO₄S

Formula Weight: 297.70

CAS Number: 86030-08-2

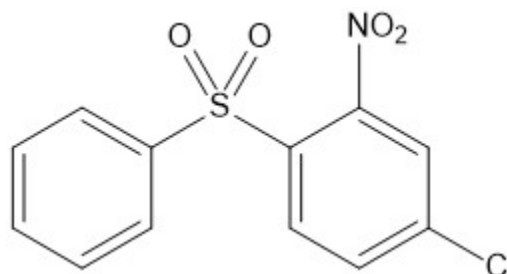
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml)

Storage: RT

Stability: ≥ 2 years.



Applications

Mitotic kinesin Kif18A inhibitor

Functions

A selective, ATP-competitive and reversible inhibitor of mitotic kinesin Kif18A, IC₅₀=1.7 mM. Binds to an allosteric site near Kif18A loop 5 preventing a range of conformational changes thereby blocking motor function. Inhibits the differentiation of mouse bone marrow cells to dendritic cells. Suppresses the replication of influenza A virus, inhibiting activation of AKT, p38 MAPK, SAPK and RanBP3 leading to the prevention of nuclear export of viral ribonucleoprotein complexes. Greatly improves the viability of IAV-infected mice.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.