

Stattic, STAT3 inhibitor

Catalog	Unit
TBI2524-10MG	10 mg
TBI2524-50MG	50 mg

Product Details

Formal Name: 6-Nitrobenzo[b]thiophene 1,1-dioxide

Molecular Formula: C₈H₅NO₄S

Formula Weight: 211.20

CAS Number: 19983-44-9

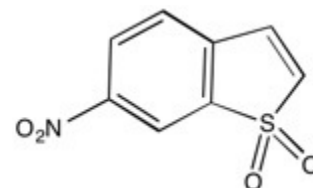
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 10 mg/ml) or in Ethanol (up to 1 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

STAT3 inhibitor

Functions

STAT3 inhibitor. Inhibits binding of tyrosine-phosphorylated peptides to STAT3 SH2 domain and inhibiting STAT3 activation, dimerization and nuclear translocation. Displays selectivity over STAT1, STAT5, c-Myc/Max, Jun/Jun and Lck. Induces apoptosis in STAT3-dependent cancer cell lines. Alkylates four cysteine residues on STAT3. Exhibits potent antitumor activity. Protects against angiotensin II-induced vascular dysfunction and hypertension. An extremely useful tool to probe involvement of STAT3 in cellular signaling.

Application Procedures

First dissolved in DMSO (up to 10 mg/ml) or in Ethanol (up to 1 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.