

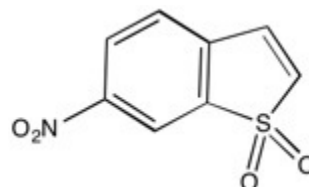
## Stattic, STAT3 inhibitor

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

### Product Details

**Formal Name:** 6-Nitrobenzo[*b*]thiophene 1,1-dioxide  
**Molecular Formula:** C<sub>8</sub>H<sub>5</sub>NO<sub>4</sub>S  
**Formula Weight:** 211.20  
**CAS Number:** 19983-44-9  
**Purity:** >98%  
**Formulation:** powder  
**Solubility:** Soluble in DMSO (10 mg/ml) or ethanol (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 (10 mg/ml) or ethanol (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.**