

Certificate of Analysis

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Product Name: Stattic

Catalog No.: 2798

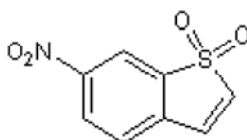
Batch No.: 3

CAS Number: 19983-44-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₅NO₄S
Batch Molecular Weight: 211.19
Physical Appearance: Pale yellow solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.5	2.39	6.63
Found	45.22	2.39	6.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Batch No.: 3

CAS Number: 19983-44-9

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

Description:

Small molecule inhibitor of STAT3. Inhibits binding of tyrosine-phosphorylated peptide motifs to STAT3 SH2 domain and inhibits 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.

Physical and Chemical Properties:

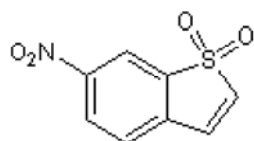
Batch Molecular Formula: C₈H₅NO₄S

Batch Molecular Weight: 211.19

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Schust *et al* (2006) Stattic: a small-molecule inhibitor of STAT3 activation and dimerization. *Chem.Biol.* **13** 1235. PMID: 17114005.

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