

Catalog	Unit
TBI2108 - 1G	1 g
TBI2108 - 5G	5 g

Product Details

Formal Name: Fermentation product from *Streptomyces azureus*.

Molecular Formula: C₇₂H₈₅N₁₉O₁₈S₅.

Formula Weight: 1664.91.

CAS Number: 1393-48-2.

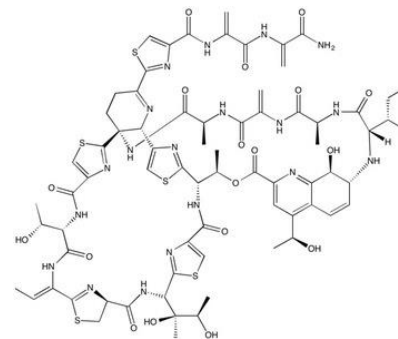
Purity: ≥98%

Formulation: Powder.

Solubility: Soluble in DMSO (up to 15 mg/ml), or in Chloroform (up to 5 mg/ml).

Storage: -20°C.

Stability: ≥ 2 years.



Applications

Antibiotic and FOXM1 inhibitor.

Functions

Thiostrepton (1393-48-2) is a novel cyclopeptide antibiotic. Blocks bacterial protein synthesis by inhibition of mRNA-tRNA translocation by GTPase elongation factor G (EF-G), EF-TU(GTP)-catalyzed aa-tRNA delivery as well as the activity of initiation factor-1 (IF-2). Displays antitumor activity. Thiostrepton induces apoptosis and cell cycle arrest in various tumor cells via downregulation of FOXM1 expression.

Application Procedures

First dissolved in DMSO (up to 15 mg/ml) or in Chloroform (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or Chloroform may be stored at -20°C for up to 2 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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