

Tunicamycin, ER stress inducer

Catalog	Unit
TBI2111-5MG	5 mg
TBI2111-25MG	25 mg

Product Details

Molecular Formula: C₃₈H₆₂N₄O₁₆ (tun. B)

Formula Weight: 830.9

CAS Number: 11089-65-9

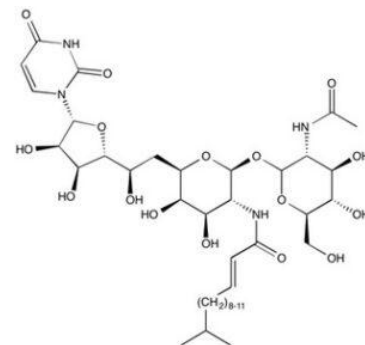
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 5 mg/ml with warming).

Storage: -20°C

Stability: ≥ 2 years.



Applications

ER stress inducer

Functions

Fermentation product from *Streptomyces lysosuperificus*. Provided as a mixture of tunicamycin A (C₁₄), B (C₁₅), C (C₁₆) and D (C₁₇) homologs varying in the number of carbon atoms in the fatty acid chain.

Potent inhibitor of GlcNAc phosphotransferase which thereby inhibits glycoprotein biosynthesis. Causes endoplasmic reticulum stress-induced autophagy and unfolded protein response. Arrests cell cycle in late G1.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Ethanol (up to 5 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.