

## Tunicamycin, ER stress inducer

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

### Product Details

**Molecular Formula:** C<sub>38</sub>H<sub>62</sub>N<sub>4</sub>O<sub>16</sub> (tun. B)

**Formula Weight:** Avg 840.0

**CAS Number:** 11089-65-9

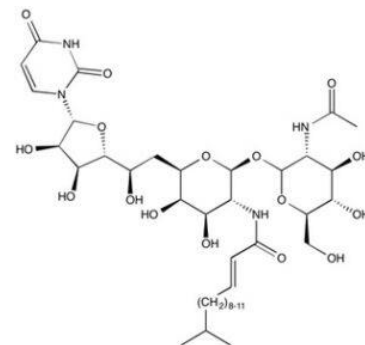
**Purity:** >98%

**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.**