



## Product Information

Product ID T8153

CAS No. 11089-65-9

Chemical Name

Synonym

Formula  $C_{40}H_{66}N_4O_{16}$

Formula Wt. Avg. 840.0

Melting Point 234-235°C

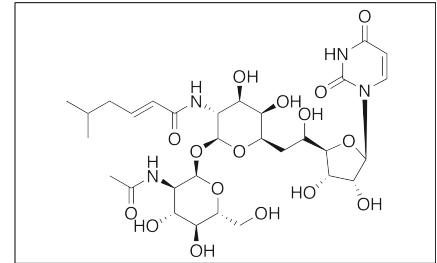
Purity  $\geq 98\%$

Solubility Soluble in DMSO and DMF.

Store Temp -20°C

Ship Temp Ambient

**Description** Tunicamycin is a nucleoside antibiotic mixture that inhibits glycoprotein synthesis. Tunicamycin prevents N-glycosylation by inhibiting GlcNAc phosphotransferase and other enzymes, inducing G1 phase cell cycle arrest in vitro. Tunicamycin displays anti-inflammatory activity, inhibiting toll-like receptor (TLR) activation-induced inflammation by decreasing activation of NF- $\kappa$ B, activity of CRE, and expression of iNOS, COX-2, TNF- $\alpha$ , and IL-1B in macrophages.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
T8153	1 mg	\$44.80
T8153	5 mg	\$149.90
T8153	10 mg	\$284.70

**References** Kim SY, Hwang JS, Han IO. Tunicamycin inhibits Toll-like receptor-activated inflammation in RAW264.7 cells by suppression of NF- $\kappa$ B and c-Jun activity via a mechanism that is independent of ER-stress and N-glycosylation. *Eur J Pharmacol.* 2013 Dec 5;721(1-3):294-300. PMID: 24056124.

Pertusa M, Madrid R, Morenilla-Palao C, et al. N-glycosylation of TRPM8 ion channels modulates temperature sensitivity of cold thermoreceptor neurons. *J Biol Chem.* 2012 May 25;287(22):18218-29. PMID: 22493431.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.