

Tunicamycin, N-linked glycosylation Inhibitor

Product Specifications

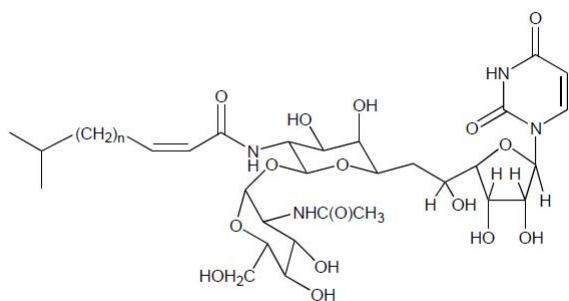
Catalog Number:	908-297
Molecular Weight:	840.0
Application Notes:	Inhibits protein glycosylation, arrests cell cycle in late G1, unstable at acidic pH, product is not sterile.
Purity:	99% as determined by HPLC (mixture of tunicamycins A, B, C, and D)
Format:	White solid; soluble in DMSO (>10 mg/mL) and ethanol (5 mg/mL, warm)
Storage:	Store as supplied at -20° C
<i>Shipping conditions may differ from the recommended storage temperature</i>	
Related Products:	
KAP-CP131	eIF-2 α (phospho-Ser52) Polyclonal Antibody
KAP-CP130	eIF-2 α Polyclonal Antibody
905-729	ATF6 Polyclonal Antibody
905-727	IRE1p Polyclonal Antibody
905-739	XBP-1 Polyclonal Antibody
908-297	Tunicamycin

Background:

Tunicamycin is an inhibitor of the UDP-N-acetylglucosamine-dolichol phosphate N-acetylglucosamine-1-phosphate transferase (GPT), acting to block the initial step of dolichol-linked oligosaccharide biosynthesis. Treatment with tunicamycin blocks the synthesis of asparagine (N)-linked glycoproteins in the ER, and induces expression of binding protein (BiP) as part of the unfolded protein response (UPR)¹⁻².

References:

1. Urade, R. (2007) FEBS J. **274**, 1152-1171.
2. Lai, E. (2007) Physiology **22**, 193-201.



Tunicamycins A, B, C, D; n=8, 9, 10, 11

Structure

FOR RESEARCH USE ONLY; NOT FOR THERAPEUTIC OR DIAGNOSTIC USE

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