

Product Name:	Tunicamycin
Product Number:	T104
CAS Number:	11089-65-9
Molecular Formula:	$C_{38}H_{62}N_4O_{16}$ (for IV)
Molecular Weight:	830.4
Description:	<p>The tunicamycins are a family of lipophilic nucleosides with fatty acids conjugated to an aminoglycoside group. The complex comprises the analogues, tunicamycins I to X. This composition is typical of other products less precisely described as tunicamycins A to D. The tunicamycins act by blocking the formation of N-glycoside linkages to proteins via inhibition of formation of dolichol monophosphate from N-acetylglucosamine-1-phosphate. Tunicamycins are broadly active against prokaryotes, eukaryotes and viruses.</p> <p>Tunicamycin is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
Mechanism of Action:	Tunicamycin blocks the synthesis of all N-linked glycoproteins (N-glycans) and causes cell cycle arrest in G1 phase.
References:	Relationship of the structure and biological activity of the natural homologues of tunicamycin. Duskin D. & Mahoney W.C. J Biol Chem. 1982, 257, 3105.