



Specification

Tunicamycin

A2242

Physical Description:	Solid
Product Code:	A2242
Product Name:	Tunicamycin
Specifications:	Assay (HPLC): min. 95 %
Hazard pictograms	 
UN:	3462
Class/PG:	6.1/II
ADR:	6.1/II
IMDG:	6.1/II
IATA:	6.1/II
WGK:	3
Storage:	2-8°C protected from light
Signal Word:	Danger
GHS Symbols:	GHS06 GHS08
H Phrases:	H300+H310+H330 H360FD
P Phrases:	P264 P301+P310

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Specification

Tunicamycin

A2242

Origin:	from <i>Streptomyces lysosuperficus</i>
CAS:	11089-65-9
CS:	29419000
Comment Tunicamycin is a nucleoside antibiotic, isolated from <i>Streptomyces lysosuperficus</i> . It inhibits the GlcNAc-1-P transferase and therefore the first step in the linkage of fatty acid and saccharide, i. e. the transfer of GlcNAc-1-P from UDP-GlcNAc to dolicholphosphate. The active concentration ranges from 0.1 to 5 µg/ml (ref. 1). According to ref. 2, a stock solution is prepared at 1 mg/ml in DMSO, DMF, 95 % ethanol, or 25 mM NaOH (In case NaOH is used, prevent uptake of CO ₂ , since Tunicamycin precipitates at < 1mg/ml if pH becomes neutral!). Store the solution at -20°C (stable approx. 1 year).	
Bibliography (1) Elbein, A.D. (1984) <i>CRC Crit. Rev. Biochem.</i> 16 , 21-49 Inhibitors of the biosynthesis and processing of N-linked oligosaccharides. (2) Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) (1999) <i>Current Protocols in Molecular Biology</i> . Page 17.10.7 (Suppl. 22) Greene Publishing & Wiley-Interscience, New York.	

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