


Specification

Brefeldin A BioChemica

A2138

Physical Description:	Solid
Product Code:	A2138
Product Name:	Brefeldin A <i>BioChemica</i>
Specifications:	Assay (HPLC): min. 99 % Solubility (0.5 %; MeOH): clear, colorless to slightly yellowish
Hazard pictograms	
WGK:	1
Storage:	2-8°C
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H302+H312+H332
P Phrases:	P261 P280 P321 P330 P362+P364 P501
Origin:	from <i>Eupenicillium brefeldianum</i>
Molecular Formula:	C ₁₆ H ₂₄ O ₄
M:	280.40 g/mol
CAS:	20350-15-6

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CS:	29419000
<p>Comment</p> <p>Brefeldin A is a macrolide antibiotic from <i>Eupenicillium brefeldianum</i> with an antiviral activity. In many mammalian cells, brefeldin A disturbs the mechanism of the separation of the endoplasmic reticulum and the Golgi apparatus. It inhibits the intracellular protein transport and the secretion of proteins (1-6). Stock solutions are prepared in concentrations of 1mg/ml (ref. 1) or 2.5 and 10 mg/ml (ref. 2) in methanol (1, 2) or ethanol (6). They should be stored at -20°C. The effective working concentration is 0.1 - 10 µg/ml, depending on the assay system.</p>	
<p>Bibliography</p> <p>(1) Misumi, Y. <i>et al.</i> (1986) <i>J. Biol. Chem.</i> 261, 11398-11403 Novel blockade by Brefeldin A of intracellular transport of secretory proteins in cultured rat hepatocytes. (2) Fujiwara, T. <i>et al.</i> (1988) <i>J. Biol. Chem.</i> 263, 18545-18552 Brefeldin A causes disassembly of the Golgi complex and accumulation of secretory proteins in the endoplasmic reticulum. (3) Prydz, K. <i>et al.</i> (1992) <i>J. Cell Biol.</i> 119, 259-272 Effect of Brefeldin A on endocytosis, transcytosis and transport to the Golgi complex in polarized MDCK cells. (4) Klausner, R.D. <i>et al.</i> (1992) <i>J. Cell Biol.</i> 116, 1071-1080 Brefeldin A: Insights into the control of membrane traffic and organelle structure. (5) Hunziker, W. <i>et al.</i> (1992) <i>FEBS Lett.</i> 307, 93-96 Brefeldin A and the endocytotic pathway: Possible implications for membrane traffic and sorting. (6) Mendez, A.J. (1995) <i>J. Biol. Chem.</i> 270, 5891-5900 Monensin and Brefeldin A inhibit the HDL-mediated cholesterol efflux.</p>	

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