

Product Name:	Anisomycin
Product Number:	A021
CAS Number:	22862-76-6
Molecular Formula:	C ₁₄ H ₁₉ NO ₄
Molecular Weight:	265.30
Form:	Powder
Appearance:	White solid
Source:	<i>Streptomyces griseolus</i>
Water Content (Karl Fischer):	≤1.0%
Melting Point:	141-143°C
Storage Conditions:	2-8°C
Description:	Anisomycin is a sparingly soluble (2 mg/mL) protein synthesis inhibiting antibiotic produced by <i>Streptomyces griseolus</i> . Anisomycin targets eukaryotic cells and is not effective against bacteria (prokaryotes).
Mechanism of Action:	Anisomycin inhibits protein synthesis in eukaryotic cells by inhibiting peptidyl-transferase activity in the 60S subunit of the 80S ribosome.
References:	Vazquez, David. "Anisomycin Binding to Eukaryotic Ribosomes." <i>Journal of Molecular Biology</i> 84.4 (1974): 603-23. <i>ScienceDirect.com</i> . 24 Apr. 1974. Web. 11 Sept. 2012.