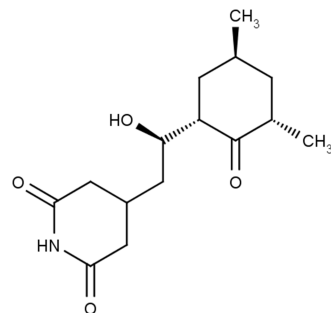




Cycloheximide

Catalog No:	54646
Lot No:	XXXXX
Cas No:	66-81-9
Formula:	C ₁₅ H ₂₃ NO ₄
MW:	281.35
Supplied as:	solid
Stability:	stable at room temperature



Background

Cycloheximide is an inhibitor of protein biosynthesis in eukaryotic organisms, produced by the bacterium *Streptomyces griseus*. Cycloheximide exerts its effect by interfering with the translocation step in protein synthesis thus blocking translational elongation. Since cycloheximide is an effective inhibitor of protein biosynthesis in eukaryotes only, it may be used to distinguish between proteins translated in the mitochondria and proteins translated in the cytosol. mRNA translated in cytosol or ER from mRNA derived from the nucleus will not be expressed in the presence of cycloheximide. Conversely, translation using mitochondrial ribosomes is unaffected by cycloheximide, and mitochondrial genes will continue to be expressed. Cycloheximide treatment also provides the ability to observe the half-life of a protein without confounding contributions from transcription or translation.

Tests

Appearance:

Assay (HPLC):

α 20°C/D; 1 %, CHCl₃:

Specifications

white to faintly beige powder

≥98%

-26° - -32°

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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