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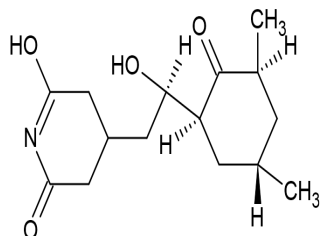
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Cycloheximide

ALTERNATE NAME: Actidione, 3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide, Naramycin A

CATALOG #: AUR10225

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₂₃NO₄

MOLECULAR WEIGHT: 281.35

CAS#: 66-81-9

APPEARANCE: White to off-white solid

SOLUBILITY: EtOH (50 mg/ml) or Water (20 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: Store at -20°C. Protect from light and moisture

DESCRIPTION: Cycloheximide is a very active antibiotic against many yeasts and fungi. Inhibits protein synthesis in eukaryotes (but not in prokaryotes) by interfering with the translocation step. It inhibits chain initiation as well as chain elongation by acting on the 60S subunit of the eukaryote ribosome, interacting directly with enzyme translocase. Cycloheximide is used as an inhibitor to study cell-free protein biosynthesis in eukaryotes and also used to block ribosome-dependent *in vivo* polypeptide synthesis. It induces apoptosis in a variety of cells, but can also delay or inhibit apoptosis by other agents.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure