

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

Cycloheximide

Product overview

Name	Cycloheximide
Cat No	HB2904
Alternative names	CHX Naramycin A
Applications	Cell Culture, Selection Agent
Purity	>95%
Description	Eukaryotic protein synthesis inhibitor. Apoptosis inducer.

Biological Data

Biological description	Widely-used eukaryotic protein synthesis inhibitor. Blocks the elongation phase of translation by binding to the E-site of the 60S ribosomal subunit to block eEF2-mediated tRNA translocation. Induces apoptosis in various cells but can also delay or inhibit apoptosis. Also inhibits FKBP12 and shows potent antifungal and anti-mold activity.
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Solubility & Handling

Storage instructions	room temperature
Solubility overview	Soluble in ethanol (50 mM) and water (25 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-[2-(3,5-Dimethyl-2-oxo-cyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione
Molecular Weight	281.35
Chemical structure	
Molecular Formula	C ₁₅ H ₂₃ NO ₄
CAS Number	66-81-9
PubChem identifier	6197
SMILES	C[C@H]1C[C@@H](C(=O)[C@@H](C1)[C@@H](CC2CC(=O)NC(=O)C2)O)C
InChiKey	YPHMISFOHDHNIV-FSZOTQKASA-N
MDL number	MFCD00082346
Appearance	White to off-white