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# DATASHEET

## Cycloheximide

### Product overview

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

### Biological Data

<b>Biological description</b>	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

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

### Chemical Data

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