

CYCLOHEXIMIDE, CRYSTALLINE**PG-17249-1G**

Cycloheximide is a potent inhibitor of eukaryotic protein synthesis widely used in molecular biology, cell biology, microbiology, and plant research. It selectively blocks translational elongation on 80S ribosomes, making it a valuable tool for studying protein turnover, gene expression, cellular regulation, and fungal selection in laboratory applications.

Parameter	Specification
------------------	----------------------

Product Name	Cycloheximide, Crystalline
---------------------	----------------------------

Chemical Name	Cycloheximide
----------------------	---------------

Molecular Formula	$C_{15}H_{23}NO_4$
--------------------------	--------------------

Molecular Weight	281.35 g/mol
-------------------------	--------------

Appearance	White to off-white crystalline powder
-------------------	---------------------------------------

Purity	≥ 98%
---------------	-------

Solubility	Soluble in ethanol, methanol, and water
-------------------	---

Melting Point	116–121°C
----------------------	-----------

CAS Number	66-81-9
-------------------	---------

Assay	≥ 98% (HPLC)
--------------	--------------

pH (1% Solution)	5.0–7.0
-------------------------	---------

Storage Condition	Store at 2–8°C in a tightly closed container. Protect from moisture, heat, and light.
--------------------------	---

Safety

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.