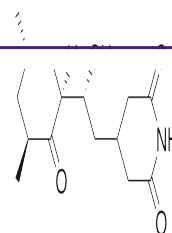


Product Datasheet

Cycloheximide (orb322384)

Description
Cycloheximide
Storage

Stability: Cycloheximide has been reported to be soluble up to 2% (w/v) in water (20 mg/ml).¹⁴ The powder will dissolve slowly in water and this process may be aided by mixing or sonication. More dilute solutions (5 mg/ml) may be prepared without sonication. Aqueous solution stability is pH dependent. Solutions are stable for several weeks in the pH range of 3 to 5, which is the range optimal for stability. For longer term solution storage, refrigeration is suggested. Solutions refrigerated over 18 months, retained 75% of the original activity.¹³ Solutions prepared in distilled water may be sterile filtered or autoclaved without serious loss of activity.¹³ Autoclaving of medium containing cycloheximide is not recommended. The sterile cycloheximide solution should be added to sterile broth or cooled, sterile, melted agar.¹³ Boiling for one hour at pH 7 destroys activity, but no loss of activity is observed after 15 minutes. Under acidic conditions (pH 2), activity is not destroyed after one hour of boiling.¹⁴ Under dilute alkali conditions, decomposition occurs rapidly in solution at room temperature with the formation of 2,4-dimethylcyclohexanone.¹⁴ Cycloheximide is also soluble in most organic solvents, including ethanol, with the exception of saturated hydrocarbons.¹⁴ Storage Temp: 4°C



Chemical structure of Cycloheximide

Note

For research use only

Formula

C₁₅H₂₃NO₄

Purity

≥98%

MW

281.35

CAS Number

66-81-9

SMILES

CC1CC(C(=O)C(C1)C(CC2CC(=O)NC(=O)C2)O)C

Solubility (25°C)

Soluble in chloroform, DMSO, acetone, methanol, or ethanol. Soluble in water to 20 mg/ml.

Hazard Information

Chemical Hazard Code: Xn, T+, Repr., N, Mut. UN Number: UN number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic, n.o.s. (Cycloheximide) Reportable Quantity (RQ): Poison inhalation hazard: No

Expiration Date

12 months from date of receipt.