

Hygromycin B from Streptomyces hygroscopicus

Cat. No. ANT-501

Lot. No. (See product label)

Product Name

Hygromycin B from Streptomyces hygroscopicus

Product Overview

This product is sourced from streptomyces hygroscopicus. It is plant cell culture tested. CAS NO. 31282-04-9. Bacteria and algae require 5 µg/mL or less while animal cells may require 300-500 µg/mL. It is recommended for use as a selection agent at 100-800 µg/mL, specifically at 100 µg/mL for prokaryotes, 200 µg/mL for lower eukaryotes and 150-400 µg/mL for higher eukaryotes.

Description

Hygromycin B is an aminoglycoside antibiotic isolated from Streptomyces hygroscopicus. It has been used to study protein synthesis at the level of the 70S ribosome translocation and mRNA template misreading, as an antiviral agent by selectively penetrating cells rendered permeable by virus infection and inhibiting translation, and as a selection agent for hygromycin resistance gene transformed cells.

Form

lyophilized Powder

Molecular Mass

527.52

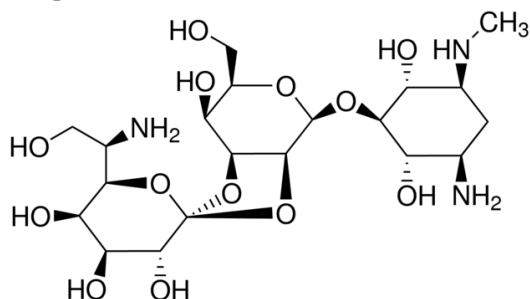
Purity

≥60%

Notes

ygromycin B products should be stored as supplied at 2-8 centigrade, and the dry solid is table for at least 5 years if stored at 2-8 centigrade. It is stable at 37 centigrade for 30 days. (For solutions) This solution is stable as supplied for two years if stored at 2-8 centigrade.

Figure 1



Solubility

50 mg soluble in 1mL of water; ethanol: soluble; methanol: soluble.

Molecular Formula

C₂₀H₃₇N₃O₁₃.

Storage

Store at 2-8 centigrade.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY