

## 50 mg/mL Hygromycin B Solution

**Cat. No:** PB180126

**Size:** 10mL

### General Information

<b>Product Form</b>	Liquid
<b>Concentration</b>	50mg/ML
<b>HEPES</b>	Negative
<b>Storage</b>	2-8℃ ,Shading Light
<b>Shipping</b>	RT
<b>Expiration date</b>	24 months

### Background

Hygromycin B ( Hygromycin B ) is an aminoglycoside antibiotic commonly used as a resistance screening reagent. It can inhibit protein synthesis by interfering with 70S ribosome translocation and inducing misreading of mRNA templates, thereby killing bacteria, fungi and advanced eukaryotic cells. The hygromycin B phosphotransferase encoded by the hygromycin resistance gene (hyg or hph) derived from E.coli can convert hygromycin B into a phosphorylated product without biological activity, thereby playing a detoxification role. Therefore, hygromycin B is often used to screen and maintain prokaryotic or eukaryotic cells that have successfully transfected hygromycin resistance genes. Hygromycin B is also often used in combination with G418, Zeocin or Blasticidin S for selection of double-resistant positive cell lines due to differences in mode of action. In addition, hygromycin B can also be used as an antiviral agent or mixed into animal feed to play an insect repellent function.

### Notes

1. This product is for research use only.;
2. This product is sterilized by 0.1μm filtration.;
3. It is necessary to pay attention to the aseptic operation and avoid the pollution.;
4. It is not recommended to store this product at room temperature for a long time.;
5. Thaw in 2 -8℃ and mix fully before use.Avoid repeated freezing and thawing. It is recommended to aliquot the solution and store at -5~-20℃.;
6. This product is a concentrated solution and dilute it to the desired concentration before use.