

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Data Sheet (Cat.No.T1022)



Hygromycin B

Chemical Properties

CAS No.: 31282-04-9

Formula: C20H37N3O13

Molecular Weight: 527.52

Appearance: no data available

Storage: keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Hygromycin B (Hygrovetine) is an aminoglycoside antibiotic that inhibits protein synthesis by interfering with translocation and causing mistranslation of the 705 ribosome. Hygromycin B can be used to screen prokaryotic or eukaryotic cells transfected with hph or hyg resistance genes.			
Targets(IC50)	ribosome,Antibacterial,Antibiotic,Antifungal			
In vitro	METHODS: Mouse PDAC cells 14387T were transfected with lentiCRISPRv2 hygro lentivirus, and after 48 h, the transfected cells were cultured in new medium containing Hygromycin B (500 μg/mL) for two weeks, and the successful transfected cells were screened. RESULTS: Puromycin dihydrochloride screened the lentivirally successfully transfected cells. [1] METHODS: E. coli was cultured in medium containing Hygromycin B (0-8 μg/mL) and cell growth was monitored using a Klett-Summerson colorimeter. RESULTS: Hygromycin B reduced the number of viable cells and increased doubling time in a concentration-dependent manner. Hygromycin B inhibited the number of viable cells by 50% at a concentration of 20 μg/mL, and halved the rate of growth at a concentration of 25 μg/mL. [2]			
In vivo	METHODS: To assay antiviral activity in vivo, Hygromycin B (0-5 μmoL/kg) was administered intraperitoneally to MHV-A59-infected BALB/c mice twice daily for three days. RESULTS: Hygromycin B was able to reduce the levels of viral replication and necrotic liver foci in vivo. [3]			

Solubility Information

Solubility	DMSO: 30 mg/mL (56.87 mM),
	Saline: 527.52 mg/mL (94.78 mM)
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8957 mL	9.4783 mL	18.9566 mL
5 mM	0.3791 mL	1.8957 mL	3.7913 mL
10 mM	0.1896 mL	0.9478 mL	1.8957 mL
50 mM	0.0379 mL	0.1896 mL	0.3791 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Fan M, Huo S, Guo Y, et al.UDP-glucose dehydrogenase supports autophagy-deficient PDAC growth via increasing hyaluronic acid biosynthesis.Cell Reports.2024, 43(2): 113808.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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