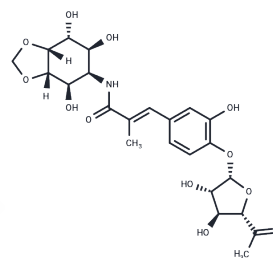


## Hygromycin A

## Chemical Properties

CAS No. :	6379-56-2
Formula:	C <sub>23</sub> H <sub>29</sub> N <sub>2</sub> O <sub>12</sub>
Molecular Weight:	511.48
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Hygromycin A, an antibiotic produced by <i>Streptomyces</i> , showed a relatively selective inhibitory activity against <i>Borrelia burgdorferi</i> . Hygromycin A can inhibit the synthesis of protein by bacterial ribosomes, which can be used to study the mechanism of Lyme disease and its antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic
In vivo	Hygromycin A selectively kills <i>Borrelia burgdorferi</i> and has a favorable effect on the composition of intestinal flora, which leads to probiotics [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (195.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9551 mL	9.7756 mL	19.5511 mL
5 mM	0.391 mL	1.9551 mL	3.9102 mL
10 mM	0.1955 mL	0.9776 mL	1.9551 mL
50 mM	0.0391 mL	0.1955 mL	0.391 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481