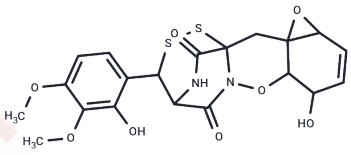
# Data Sheet (Cat.No.T35741)

TargetMol

## Gliovirin

### Chemical Properties



CAS No. : 83912-90-7

Formula: C20H20N2O8S2

Molecular Weight: 480.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | Gliovirin is a fungal metabolite that has been found inT. harzianumand has fungicidal, antimicrobial and anti-inflammatory activities.1It is active against the plant pathogenic fungusP. ultimum(MIC = 60 ng/ml) and the parasiteT. brucei brucei(IC50= 90 ng/ml), but has no effect on the plant pathogenic fungiR. solani,P. omnivorum,T. basicola,R. arrhizus, andV. dahliaeor the bacteriaB. thuringiensis,P. fluorescens, andX. malvacearumwhen used at concentrations up to 1,000 ng/ml.2,3Gliovirin decreases phorbol 12-myristate 13-acetate (TPA)- and ionomycin-induced increased expression of COX-2 (IC50= 1 μM) and protein levels of IL-2 in Jurkat cells (IC50= 5.2 μM).1 |
| Targets(IC50) | Others,Antibiotic,Antifungal |

### Solubility Information

| | |
|---|---|
| Solubility | Methanol: Soluble<br>DMSO: Soluble<br>Ethanol: Soluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0811 mL | 10.4056 mL | 20.8112 mL |
| 5 mM | 0.4162 mL | 2.0811 mL | 4.1622 mL |
| 10 mM | 0.2081 mL | 1.0406 mL | 2.0811 mL |
| 50 mM | 0.0416 mL | 0.2081 mL | 0.4162 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.

Reference

Rether, J., Serwe, A., Anke, T., et al.Inhibition of inducible tumor necrosis factor-α expression by the fungal epipolythiodiketopiperazine gliovirinBiol. Chem.388(6)627-637(2007)
Howell, C.R., and Stipanovic, R.D.Gliovirin, a new antibiotic from Gliocladium virens, and its role in the biological control of Pythium ultimumCan. J. Microbiol.29(3)321-324(1983)
Iwatsuki, M., Otoguro, K., Ishiyama, A., et al.In vitro antitrypanosomal activity of 12 low-molecular-weight antibiotics and observations of structure/activity relationshipsJ. Antibiot. (Tokyo)63(10)619-622(2010)



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