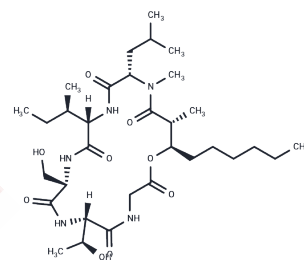


## Globomycin

## Chemical Properties

CAS No. :	67076-74-8
Formula:	C <sub>32</sub> H <sub>57</sub> N <sub>5</sub> O <sub>9</sub>
Molecular Weight:	655.834
Storage:	Keep away from moisture 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	Globomycin, a lipopeptide antibiotic, is an inhibitor of signal peptidase II (LspA). It binds irreversibly to the peptidase, thereby inhibiting the processing of the prolipoprotein.
Targets(IC50)	Others,Antibacterial,Antibiotic
In vitro	Globomycin effectively inhibits the growth of <i>S. melliferum</i> with MICs of 12.5 μM for strain B88 and 6.25 μM for strain BC3. It interferes with bacterial lipoprotein processing by inhibiting signal peptidase II in gracilicutes (Gram-negative eubacteria) and firmicutes (Gram-positive eubacteria) [1]. In <i>B. diminuta</i> DS010 cells treated with Globomycin, most organophosphate hydrolase (OPH) accumulates in the cytoplasm in an unprocessed form, whereas untreated cells show minimal precursor and increased mature OPH in the membrane fraction [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5248 mL	7.6239 mL	15.2479 mL
5 mM	0.305 mL	1.5248 mL	3.0496 mL
10 mM	0.1525 mL	0.7624 mL	1.5248 mL
50 mM	0.0305 mL	0.1525 mL	0.305 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

Béven L, et al. Inhibition of spiralin processing by the lipopeptide antibiotic globomycin. *Curr Microbiol.* 1996 Nov; 33(5):317-22.

Parthasarathy S, et al. Organophosphate Hydrolase Is a Lipoprotein and Interacts with Pi-specific Transport System to Facilitate Growth of *Brevundimonas diminuta* Using OP Insecticide as Source of Phosphate. *J Biol Chem.* 2016 Apr 1;291(14):7774-85.

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