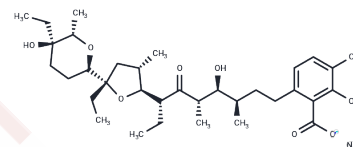


## Lasalocid sodium

### Chemical Properties

CAS No. :	25999-20-6
Formula:	C <sub>34</sub> H <sub>53</sub> NaO <sub>8</sub>
Molecular Weight:	612.77
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	Lasalocid sodium (Lasalocid-A sodium) is a cationic ionophore antibiotic derived from <i>Streptomyces lasaliensis</i> that disrupts calcium fluxes in muscle fibers. It is primarily used as a coccidiostat, particularly in poultry.
Targets(IC50)	Apoptosis, Antibacterial, Antibiotic, Parasite, Autophagy

### Solubility Information

Solubility	H <sub>2</sub> O: < 0.1 mg/mL (insoluble), DMSO: 100 mg/mL (163.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.53 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6319 mL	8.1597 mL	16.3193 mL
5 mM	0.3264 mL	1.6319 mL	3.2639 mL
10 mM	0.1632 mL	0.816 mL	1.6319 mL
50 mM	0.0326 mL	0.1632 mL	0.3264 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

Okubo-Kurihara E et al. Modification of plant cell wall structure accompanied by enhancement of saccharification efficiency using a chemical, lasalocid sodium. Sci Rep. 2016 Oct 3;6:34602.

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