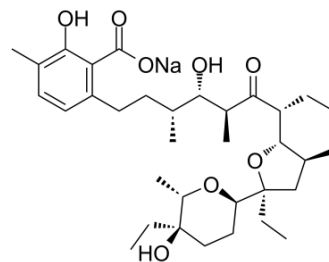


Lasalocid sodium

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-B1071A | | |
| CAS No.: | 25999-20-6 | | |
| Molecular Formula: | C ₃₄ H ₅₃ NaO ₈ | | |
| Molecular Weight: | 612.77 | | |
| Target: | Bacterial; Autophagy; Antibiotic | | |
| Pathway: | Anti-infection; Autophagy | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (163.19 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 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 | 0.8160 mL | 1.6319 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (4.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lasalocid sodium (Lasalocid-A sodium) treatment led to an increase in cell wall thickness, whilst the quantity and sugar composition of the cell wall remained unchanged in BY-2 cells. Lasalocid sodium (Lasalocid-A sodium) treatment enhances enzymatic saccharification efficiency in both BY-2 cells and Arabidopsis plants.

CUSTOMER VALIDATION

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- Langmuir. 2020 Mar 31;36(12):3184-3192.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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