Benzoic acid lithium

Cat. No.: HY-N0216A

CAS No.: 553-54-8

Molecular Formula: $C_7H_5LiO_2$

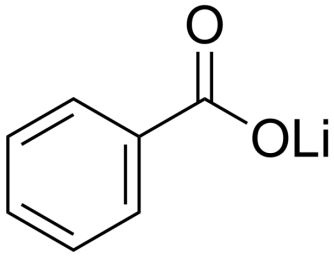
Molecular Weight: 128.05

Target: Bacterial; Fungal; Endogenous Metabolite

Pathway: Anti-infection; Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (780.94 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	7.8094 mL	39.0472 mL	78.0945 mL
5 mM	1.5619 mL	7.8094 mL	15.6189 mL
10 mM	0.7809 mL	3.9047 mL	7.8094 mL

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

BIOLOGICAL ACTIVITY

Description

Benzoic acid lithium is an aromatic alcohol found in many plants and is a common additive in food, beverages, cosmetics and other products. Benzoic acid lithium inhibits bacteria and fungi and acts as a preservative[1].

In Vitro

Benzoic acid (1 mM) lithium stimulates OAT2-catalyzed efflux of glutamic acid and orotic acid from OAT2h-expressing 293 cells[2].

Benzoic acid (0.5 and 2.0 mg/disc) lithium shows antibacterial activity against S. aureus, S. epidermidis, P. aeruginosa, B. cereu)[4].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Combinations of benzoic acid (2,000 mg/kg in diet, 1-14 days) lithium and Thymol (HY-N6810) (100 mg/kg in diet, 1-14 days) inproves growth performance, promotes nutrient digestion and absorption, and reduces diarrhea in weaned pigs[3].

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REFERENCES

[1]. Nair B, et al. Final report on the safety assessment of Benzyl Alcohol, Benzoic Acid, and Sodium Benzoate. Int J Toxicol. 2001;20 Suppl 3:23-50.

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