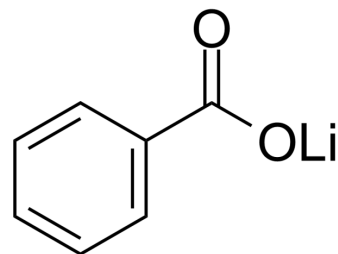


Benzoic acid lithium

| | |
|--------------------|--|
| Cat. No.: | HY-N0216A |
| CAS No.: | 553-54-8 |
| Molecular Formula: | C ₇ H ₅ LiO 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 ₂ O : 100 mg/mL (780.94 mM; Need ultrasonic) | | | | |
| | Preparing Stock Solutions | <div><div>Solvent</div><div>Concentration</div><div>Mass</div></div> | 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 <i>S. aureus</i> , <i>S. epidermidis</i> , <i>P. aeruginosa</i> , <i>B. cereu</i>) ^[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) improves growth performance, promotes nutrient digestion and absorption, and reduces diarrhea in weaned pigs ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

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

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