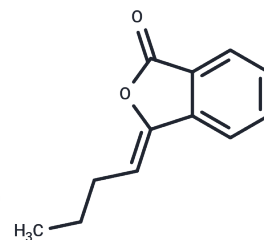


3-Butylidenephthalide

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 551-08-6 |
| Formula: | C ₁₂ H ₁₂ O ₂ |
| Molecular Weight: | 188.22 |
| Storage: | Keep away from direct sunlight 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 | 1. 3-Butylidenephthalide (Butylidene phthalide) has antihyperglycemic effect is due to inhibition of α -glucosidase at the intestinal level, inhibited the activity of yeast- α -glucosidase (IC ₅₀ 2.35 mM) in a noncompetitive fashion with a K(i) of 4.86 mM. |
| Targets(IC50) | Parasite,Glucosidase |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (1328.23 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: 2 mg/mL (10.63 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 | 5.3129 mL | 26.5647 mL | 53.1293 mL |
| 5 mM | 1.0626 mL | 5.3129 mL | 10.6259 mL |
| 10 mM | 0.5313 mL | 2.6565 mL | 5.3129 mL |
| 50 mM | 0.1063 mL | 0.5313 mL | 1.0626 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

Saw C L L , Qing W , Zheng-Yuan S , et al. Effects of natural phytochemicals in Angelica sinensis (Danggui) on Nrf2-mediated gene expression of phase II drug metabolizing enzymes and anti-inflammation[J]. *Biopharmaceutics & Drug Disposition*, 2014, 34(6):303-311.

He J, Yuan R, Jiang Y, et al. Esculetin facilitates post-stroke rehabilitation by inhibiting CKLF1-mediated neutrophil infiltration. *Acta Pharmacologica Sinica*. 2024: 1-14.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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