

Butyl benzoate

Chemical Properties

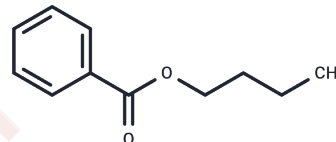
CAS No. : 136-60-7

Formula: C₁₁H₁₄O₂

Molecular Weight: 178.23

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Butyl benzoate is an ester compound widely used in biochemical experiments and drug synthesis research. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 4 mg/mL (22.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 5.6107 mL | 28.0536 mL | 56.1073 mL |
| 5 mM | 1.1221 mL | 5.6107 mL | 11.2215 mL |
| 10 mM | 0.5611 mL | 2.8054 mL | 5.6107 mL |
| 50 mM | 0.1122 mL | 0.5611 mL | 1.1221 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

- Matsui Y, et al. Discovery and structure-guided optimization of tert-butyl 6-(phenoxyethyl)-3-(trifluoromethyl) benzoates as liver X receptor agonists. *Bioorg Med Chem Lett*. 2015 Sep 15;25(18):3914-20.
- Song K, et al. Discovery and SAR study of 3-(tert-butyl)-4-hydroxyphenyl benzoate and benzamide derivatives as novel farnesoid X receptor (FXR) antagonists. *Bioorg Med Chem*. 2015 Oct 1;23(19):6427-36.
- Guo S, et al. tert-Butyl peroxybenzoate-promoted α -methylation of 1,3-dicarbonyl compounds. *J Org Chem*. 2014 Nov 21;79(22):11285-9.
- Guo S, Wang Q, Jiang Y, Yu JT. tert-Butyl peroxybenzoate-promoted α -methylation of 1,3-dicarbonyl compounds. *J Org Chem*. 2014 Nov 21;79(22):11285-9. doi: 10.1021/jo502204a. Epub 2014 Oct 31. PubMed PMID: 25331571.

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