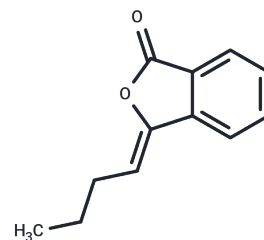


## (Z)-Butylidenephthalide

## Chemical Properties

CAS No. :	72917-31-8
Formula:	C <sub>12</sub> H <sub>12</sub> O <sub>2</sub>
Molecular Weight:	188.22
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	(Z)-Butylidenephthalide ((Z)-3-Butylidenephthalide) has antitumor and hypoglycemic effects, and can effectively inhibit the tumor growth of glioma and inhibit R-glucosidase activity.
Targets(IC50)	Glucosidase, glycosidase
In vitro	(Z)-3-Butylidenephthalide inhibited the activity of yeast-R-glucosidase (IC <sub>50</sub> 2.35 mM) in a noncompetitive fashion with a K <sub>i</sub> of 4.86 mM.

## 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

Fernando Brindis, et al. (Z)-3-butylidenephthalide from *Ligusticum porteri*, an  $\alpha$ -glucosidase inhibitor. *J Nat Prod.* 2011 Mar 25;74(3):314-20.

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