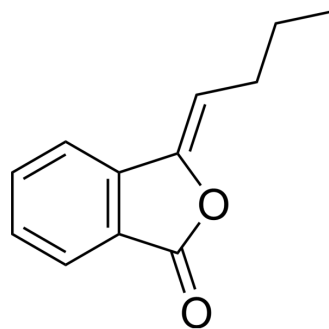


## (Z)-3-Butylidenephthalide

<b>Cat. No.:</b>	HY-N0336A
<b>CAS No.:</b>	72917-31-8
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>12</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	188.23
<b>Target:</b>	Glucosidase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 56.2 mg/mL (298.57 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.3126 mL	26.5632 mL	53.1265 mL
	5 mM	1.0625 mL	5.3126 mL	10.6253 mL
	10 mM	0.5313 mL	2.6563 mL	5.3126 mL

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

### BIOLOGICAL ACTIVITY

#### Description

(Z)-3-Butylidenephthalide is an antihyperglycemic agent by inhibiting the activity of intestinal and yeast R-glucosidases (IC<sub>50</sub>=2.35 mM; K<sub>i</sub>=4.86 mM)<sup>[1]</sup>.

### REFERENCES

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

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

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