# Data Sheet (Cat.No.T38352)



### Ebelactone A

#### **Chemical Properties**

CAS No.: 76808-16-7
Formula: C20H34O4

Molecular Weight: 338.488

Appearance: no data available

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

## **Biological Description**

Description Ebelactone A is a β-lactone enzyme inhibitor that was first isolated from a cultured

strain of soil actinomycetes. It can inhibit esterases, lipases, and N-formylmethionine aminopeptidases (IC50s = 0.056, 0.003, and  $0.08 \mu g/ml$ , respectively) found on cell surfaces, which has been shown to stimulate host defense in immune cells. Ebelactone A is also reported to inhibit cutinases produced by fungal pathogens, thus

demonstrating a plant-protective function.

## **Solubility Information**

Solubility OMSO: 25 mg/mL

Ethanol: 20 mg/mL DMF: 25 mg/mL

DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL

(< 1 mg/ml refers to the product slightly soluble or insoluble)

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	2.9543 mL	14.7715 mL	29.543 mL
5 mM	0.5909 mL	2.9543 mL	5.9086 mL
10 mM	0.2954 mL	1.4771 mL	2.9543 mL
50 mM	0.0591 mL	0.2954 mL	0.5909 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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