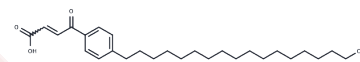


## 3-(4-Octadecylbenzoyl)acrylic acid

### Chemical Properties

CAS No. :	134531-42-3
Formula:	C <sub>28</sub> H <sub>44</sub> O <sub>3</sub>
Molecular Weight:	428.65
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	3-(4-Octadecylbenzoyl)acrylic acid is an effective broad-spectrum phospholipase A2 (PLA2) inhibitor. By preventing the release of arachidonic acid from membrane phospholipids, it severs the biosynthetic cascade of prostaglandins and leukotrienes, demonstrating exceptionally potent anti-inflammatory activity in acute inflammation and tissue injury models.
Targets(IC50)	Phospholipase

### Solubility Information

Solubility	DMSO: 20 mg/mL (46.66 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3329 mL	11.6645 mL	23.3291 mL
5 mM	0.4666 mL	2.3329 mL	4.6658 mL
10 mM	0.2333 mL	1.1665 mL	2.3329 mL
50 mM	0.0467 mL	0.2333 mL	0.4666 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

Cao J, Husbands S M, Kopajtic T, et al. [3-cis-3, 5-Dimethyl-(1-piperazinyl) alkyl]-bis-(4'-fluorophenyl) amine analogues as novel probes for the dopamine transporter[J]. Bioorganic & medicinal chemistry letters, 2001, 11(24): 3169-3173.

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