

AX 048

## Chemical Properties

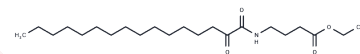
CAS No. : 873079-69-7

Formula: C<sub>22</sub>H<sub>41</sub>NO<sub>4</sub>

Molecular Weight: 383.57

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	The group IVA phospholipase A2 (PLA2), known as calcium-dependent cytosolic PLA2 (cPLA2), selectively releases arachidonic acid from membrane phospholipids, playing a central role in initiating the synthesis of prostaglandins and leukotrienes. AX 048 is a potent group IVA cPLA2 inhibitor that demonstrates 50% inhibition of the enzyme at a mole fraction (X <sub>I</sub> (50)) of 0.022. Pretreatment with AX 048 (ED <sub>50</sub> = 1.2 mg/kg) dose-dependently reduces thermal hyperalgesia evoked by carrageenan injection of rat hind paw. At concentrations as high as 30 μM, AX 048 does not inhibit COX activity or interfere with central cannabinoid receptor signaling.
Targets(IC50)	Others,Phospholipase

## Solubility Information

Solubility	DMSO: 2 mg/mL (5.21 mM),Sonication is recommended. Ethanol: 5 mg/mL (13.04 mM),Sonication is recommended. DMF: 10 mg/mL (26.07 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	2.6071 mL	13.0354 mL	26.0709 mL
5 mM	0.5214 mL	2.6071 mL	5.2142 mL
10 mM	0.2607 mL	1.3035 mL	2.6071 mL
50 mM	0.0521 mL	0.2607 mL	0.5214 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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