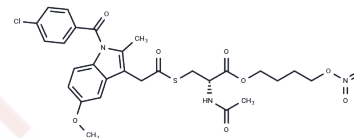


## NO-Indomethacin

## Chemical Properties

CAS No. :	301838-28-8
Formula:	C <sub>28</sub> H <sub>30</sub> ClN <sub>3</sub> O <sub>9</sub> S
Molecular Weight:	620.07
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	NO-indomethacin is a hybrid molecule of indomethacin and a nitric oxide (NO) donor. This drug design combines the anti-inflammatory properties of a non-steroidal anti-inflammatory drug (NSAID) with the gastrointestinal protective effects of NO. Compounds of this class retain their anti-inflammatory and analgesic activity, but have reduced gastrointestinal and kidney toxicity compared to the NSAID alone. NO-indomethacin also enhances the cancer chemopreventative activity of indomethacin. NO-indomethacin exhibits an IC <sub>50</sub> of 82 μM, compared to >1,000 μM for indomethacin alone, for the inhibition of pancreatic cancer cell (PaCa-2) growth after 24 hours in culture.
Targets(IC <sub>50</sub> )	Others,COX

## Solubility Information

Solubility	DMF:PBS (pH 7.2)(1:1): 0.5 mg/mL (0.81 mM),Sonication is recommended. DMSO: 20 mg/mL (32.25 mM),Sonication is recommended. Ethanol: 0.5 mg/mL (0.81 mM),Sonication is recommended. DMF: 30 mg/mL (48.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.6127 mL	8.0636 mL	16.1272 mL
5 mM	0.3225 mL	1.6127 mL	3.2254 mL
10 mM	0.1613 mL	0.8064 mL	1.6127 mL
50 mM	0.0323 mL	0.1613 mL	0.3225 mL

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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.

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