

## NO-Indomethacin

## Chemical Properties

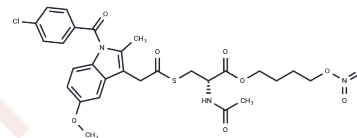
CAS No. : 301838-28-8

Formula: C<sub>28</sub>H<sub>30</sub>ClN<sub>3</sub>O<sub>9</sub>S

Molecular Weight: 620.07

Appearance:

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



## 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

## 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

	1mg	5mg	10mg
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

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**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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