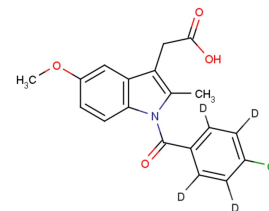


## Indomethacin-D4

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 87377-08-0   |
| Formula:          | C <sub>19</sub> H <sub>12</sub> D <sub>4</sub> ClNO <sub>4</sub>       |
| Molecular Weight: | 361.81   |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | Indomethacin-D4 is a deuterium labeled Indomethacin. Indomethacin is a potent and nonselective inhibitor of COX1 and COX2, with IC <sub>50</sub> s of 18 nM and 26 nM for human COX-1 and COX-2, respectively, in CHO cells. |
| Targets(IC <sub>50</sub> ) | Human COX-1: 18 nM Human COX-2: 26 nM (in CHO cells)   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.764 mL | 13.819 mL | 27.639 mL |
| 5 mM  | 0.553 mL | 2.764 mL  | 5.528 mL  |
| 10 mM | 0.276 mL | 1.382 mL  | 2.764 mL  |
| 50 mM | 0.055 mL | 0.276 mL  | 0.553 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Riendeau D, et al. Biochemical and pharmacological profile of a tetrasubstituted furanone as a highly selective COX-2 inhibitor. Br J Pharmacol. 1997 May;121(1):105-17.

Inhibitors · Natural Compounds · Compound Libraries

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