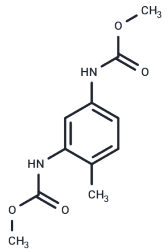
# Data Sheet (Cat.No.TN2003)

TargetMol

## Obtucarbamate A

### Chemical Properties



CAS No. : 6935-99-5

Formula: C11H14N2O4

Molecular Weight: 238.24

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 | Obtucarbamate A, isolated from *Disporum cantoniense*, exhibits antitussive activity and demonstrates a significant inhibitory effect against neuroinflammation with an IC50 value of 10.57 μM. |
| Targets(IC50) | NO Synthase |
| In vitro | obtucarbamates A exhibited significant inhibitory effect against neuroinflammation with IC50 values of 10.57μM, much stronger than that of the positive control minocycline (IC50 35.82μM). |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 2.39 mg/mL (10.03 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.2 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 4.1974 mL | 20.9872 mL | 41.9745 mL |
| 5 mM | 0.8395 mL | 4.1974 mL | 8.3949 mL |
| 10 mM | 0.4197 mL | 2.0987 mL | 4.1974 mL |
| 50 mM | 0.0839 mL | 0.4197 mL | 0.8395 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

Biotransformation of isofraxetin-6-O-β-d-glucopyranoside by Angelica sinensis (Oliv.) Diels callus.Bioorg Med Chem Lett. 2017 Jan 15;27(2):248-253