

## Coumaran

## Chemical Properties

CAS No. : 496-16-2

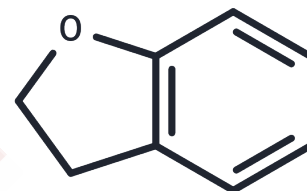
Formula: C<sub>8</sub>H<sub>8</sub>O

Molecular Weight: 120.15

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Coumaran (2,3-Dihydrobenzofuran), an acetylcholinesterase (AChE) inhibitor isolated from the leaves of L. camara, can be used as a biopesticide and belongs to the class of 1-benzofurans as the 2,3-dihydro derivative of benzofuran with a role as a metabolite. |
| Targets(IC50) | Endogenous Metabolite,Parasite,Cholinesterase (ChE)  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 27.5 mg/mL (228.88 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: 3.3 mg/mL (27.47 mM),Sonication is recommended.<br><i>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.</i> |

### Preparing Stock Solutions

---

|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 8.3229 mL  | 41.6146 mL | 83.2293 mL  |
| 5 mM  | 1.6646 mL  | 8.3229 mL  | 16.6459 mL  |
| 10 mM | 0.8323 mL  | 4.1615 mL  | 8.3229 mL   |
| 50 mM | 0.1665 mL  | 0.8323 mL  | 1.6646 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**

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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481