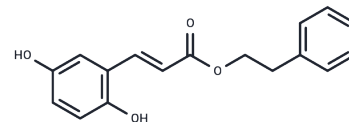


## 5-LOX-IN-2

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 179691-97-5                                              |
| Formula:          | C17H16O4                                                 |
| Molecular Weight: | 284.31                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|               |                                                                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | 5-LOx-in-2 is a 5-lipoxygenase inhibitor (5-LOX) with an IC50 value of 0.33 $\mu$ M. 5-lox-in-2 inhibits 5-LOX action IN a dose-dependent manner. 5-LOX-IN-2 can reduce the cell activity of kidney cancer cells and induce apoptosis, and can be used in cancer research. |
| Targets(IC50) | Apoptosis,Lipoxygenase                                                                                                                                                                                                                                                     |

### Solubility Information

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Solubility | DMSO: 50 mg/mL (175.86 mM)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.5173 mL | 17.5864 mL | 35.1729 mL |
| 5 mM  | 0.7035 mL | 3.5173 mL  | 7.0346 mL  |
| 10 mM | 0.3517 mL | 1.7586 mL  | 3.5173 mL  |
| 50 mM | 0.0703 mL | 0.3517 mL  | 0.7035 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.

### Reference

Selka A, et.al. Discovery of a novel 2,5-dihydroxycinnamic acid-based 5-lipoxygenase inhibitor that induces apoptosis and may impair autophagic flux in RCC4 renal cancer cells. Eur J Med Chem. 2019 Oct 1;179:347-357.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481