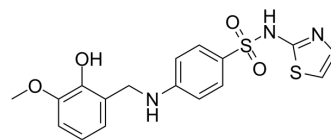


## CAY10698

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-121585  |
| CAS No.:           | 684236-01-9  |
| Molecular Formula: | C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub>                   |
| Molecular Weight:  | 391.46   |
| Target:            | Lipoxygenase   |
| Pathway:           | Metabolic Enzyme/Protease  |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |   |                          |           |            |            |
|---|---|--------------------------|-----------|------------|------------|
| In Vitro  | DMSO : 125 mg/mL (319.32 mM; Need ultrasonic)   |                          |           |            |            |
|   |   | Solvent<br>Concentration | Mass      |            |            |
|   | Preparing<br>Stock Solutions  |                          | 1 mg      | 5 mg       | 10 mg      |
|   |   | 1 mM                     | 2.5545 mL | 12.7727 mL | 25.5454 mL |
|   |   | 5 mM                     | 0.5109 mL | 2.5545 mL  | 5.1091 mL  |
|   | 10 mM   | 0.2555 mL                | 1.2773 mL | 2.5545 mL  |            |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |           |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.08 mg/mL (5.31 mM); Clear solution |                          |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.08 mg/mL (5.31 mM); Clear solution            |                          |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.08 mg/mL (5.31 mM); Clear solution                            |                          |           |            |            |

### BIOLOGICAL ACTIVITY

|             |   |
|-------------|---|
| Description | CAY10698 (compound 1) is a potent and selective inhibitor of 12-Lipoxygenase (12-LOX) with an IC <sub>50</sub> of 5.1 μM. CAY10698 is inactive against 5-LOX, 15-LOX-1, 15-LOX-2 and COX-1/2 <sup>[1]</sup> . |
|-------------|---|

### REFERENCES

[1]. David J. Maloney, et al. 4-((2-hydroxy-3-methoxybenzyl)amino)benzenesulfonamide Derivatives as Potent and Selective Inhibitors of 12-Lipoxygenase.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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