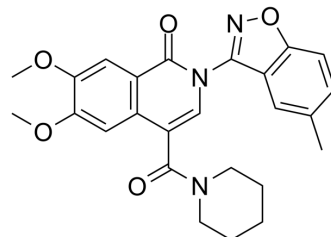


## AS2717638

|                    |   |       |          |
|--------------------|---|-------|----------|
| Cat. No.:          | HY-114379   |       |          |
| CAS No.:           | 2148339-28-8  |       |          |
| Molecular Formula: | C <sub>25</sub> H <sub>25</sub> N <sub>3</sub> O <sub>5</sub> |       |          |
| Molecular Weight:  | 447.48  |       |          |
| Target:            | LPL Receptor  |       |          |
| Pathway:           | GPCR/G Protein  |       |          |
| Storage:           | Powder  | -20°C | 3 years  |
|                    |   | 4°C   | 2 years  |
|                    | In solvent  | -80°C | 6 months |
|                    |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|   |   |                          |              |            |            |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro  | DMSO : 60 mg/mL (134.08 mM; Need ultrasonic)  |                          |              |            |            |
|   |   | Solvent<br>Concentration | Mass<br>1 mg | 5 mg       | 10 mg      |
|   | Preparing Stock Solutions   | 1 mM                     | 2.2347 mL    | 11.1737 mL | 22.3474 mL |
|   |   | 5 mM                     | 0.4469 mL    | 2.2347 mL  | 4.4695 mL  |
|   |   | 10 mM                    | 0.2235 mL    | 1.1174 mL  | 2.2347 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: ≥ 6 mg/mL (13.41 mM); Clear solution |                          |              |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 6 mg/mL (13.41 mM); Clear solution                            |                          |              |            |            |

### BIOLOGICAL ACTIVITY

|                           |   |
|---------------------------|---|
| Description               | AS2717638 is an oral active and selective lysophosphatidic acid receptor 5 (LPA5) antagonist, with an IC <sub>50</sub> of 38 nM for hLPA5. AS2717638 also significantly improves PGE <sub>2</sub> -, PGF <sub>2α</sub> -, and AMPA-induced allodynia <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : 38 nM (hLPA5) <sup>[1]</sup> .   |

### REFERENCES

[1]. Murai N, et al. Analgesic effects of novel lysophosphatidic acid receptor 5 antagonist AS2717638 in rodents. *Neuropharmacology*. 2017 Nov;126:97-107.

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

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