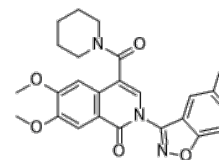


**Product Name** : AS2717638  
**Cat. No.** : PC-23606  
**CAS No.** : 2148339-28-8  
**Molecular Formula** : C<sub>25</sub>H<sub>25</sub>N<sub>3</sub>O<sub>5</sub>  
**Molecular Weight** : 447.49  
**Target** : Lysophospholipid Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

AS2717638 a potent, selective lysophosphatidic acid receptor 5 (LPA5, LPAR5) antagonist, inhibits LPA-induced cAMP accumulation in CHO cells expressing human LPA5 with IC<sub>50</sub> of 38 nM.

AS2717638 shows no activity against LPA-induced Ca<sup>2+</sup> mobilization in cells expressing human LPA1, LPA2, and LPA3.

AS2717638 shows binding K<sub>i</sub> of for 9.1, 16 and 7.3 nM for human, rat, and mouse LPA5 receptor respectively.

Oral administration of AS2717638 inhibited LPA5 agonist-induced allodynia in mice.

AS2717638 also significantly improved PGE<sub>2</sub>-, PGF<sub>2</sub>α-, and AMPA-induced allodynia, AS2717638 significantly ameliorated static mechanical allodynia and thermal hyperalgesia in rat models of chronic constriction injury (CCI)-induced neuropathic pain.

AS2717638 also showed analgesic effects in a rat model of inflammatory pain.

## References

Murai N, et al. Neuropharmacology. 2017 Nov;126:97-107.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com