

UCM-05194

## Chemical Properties

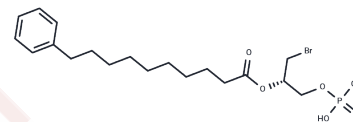
CAS No. : 2411412-36-5

Formula: C<sub>19</sub>H<sub>30</sub>BrO<sub>6</sub>P

Molecular Weight: 465.32

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	UCM-05194 is a selective LPA1 receptor agonist that can improve neuropathic pain and can be used in the study of progressive system diseases.
Targets(IC50)	Endogenous Metabolite,LPA Receptor
In vitro	<p><b>METHODS:</b> B103 neuroblastoma cells overexpressing LPA1 receptors were seeded (2.5 · 10<sup>5</sup> cells) into the upper chamber of a transwell and vehicle (0.1% fatty acid-free bovine serum albumin), LPA 1 μM, or UCM-05194 were added to the lower chamber. After allowing cells to migrate for 5 h, migrated cells were stained with 0.1% crystal violet solution and counted.</p> <p><b>RESULTS:</b> UCM-05194 induced neurite retraction and UCM-05194 induced cell migration in B103 cells overexpressing LPA1 in the transwell chamber assay. [1]</p>

## Solubility Information

Solubility	DMSO: 16.67 mg/mL (35.82 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1491 mL	10.7453 mL	21.4906 mL
5 mM	0.4298 mL	2.1491 mL	4.2981 mL
10 mM	0.2149 mL	1.0745 mL	2.1491 mL
50 mM	0.043 mL	0.2149 mL	0.4298 mL

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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.

### Reference

González-Gil I, et al. A Novel Agonist of the Type 1 Lysophosphatidic Acid Receptor (LPA1), UCM-05194, Shows Efficacy in Neuropathic Pain Amelioration. *J Med Chem.* 2020 Mar 12;63(5):2372-2390.

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