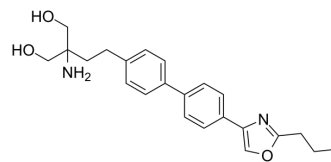


## IMMH001

<b>Cat. No.:</b>	HY-147660
<b>CAS No.:</b>	1418093-75-0
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	380.48
<b>Target:</b>	LPL Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	IMMH001, also called SYL930, is an orally active, potent and selective S1P1 (sphingosine-1-phosphate receptor 1) agonist. IMM001 decreased levels of both chemokines and proinflammatory cytokines, including IL-1 $\beta$ , IL-5, IL-18, IP10, CCL3, and CCL5. IMM001 can be used for rheumatoid arthritis (RA) research <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	S1PR1
<b>In Vivo</b>	<p>IMMH001 is converted to the active form, its monophosphate ester (S)-IMMH001-P, by sphingosine kinase 1 (SphK1) and sphingosine kinase 2 (SphK2) in vivo<sup>[1]</sup>.</p> <p>IMMH001 suppresses both Th1 cell (IL-1<math>\beta</math>, IL-18, and IP10) and Th2 cell (IL-5)-mediated disease reactions in damaged joints<sup>[2]</sup>.</p> <p>IMMH001 (0.3-2.4 mg/kg, Orally; twice a week, for 28 days, AA rats; for 30 days, CIA rats) relieves the damage of AA (adjuvant-induced arthritis) and CIA (collagen-induced arthritis) rats' joints<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Xiao Q, et al. Design and synthesis of analogues of the sphingosine-1-phosphate receptor 1 agonist IMM001 with improved phosphorylation rate in human blood. *Bioorg Med Chem.* 2020 Nov 1;28(21):115722.

[2]. Jin J, et al. Sphingosine-1-Phosphate Receptor Subtype 1 (S1P1) Modulator IMM001 Regulates Adjuvant- and Collagen-Induced Arthritis. *Front Pharmacol.* 2019 Sep 19;10:1085.

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

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