



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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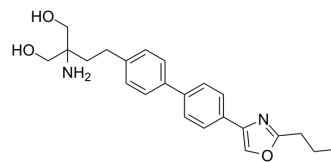
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## IMMH001

<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>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (262.83 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.6283 mL	13.1413 mL	26.2826 mL
	<b>5 mM</b>	0.5257 mL	2.6283 mL	5.2565 mL
	<b>10 mM</b>	0.2628 mL	1.3141 mL	2.6283 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution</li> </ol>			

### 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-1β, 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>	IMMH001 is converted to the active form, its monophosphate ester (S)-IMMH001-P, by sphingosine kinase 1 (SphK1) and

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sphingosine kinase 2 (SphK2) in vivo<sup>[1]</sup>.

IMMH001 suppresses both Th1 cell (IL-1 $\beta$ , IL-18, and IP10) and Th2 cell (IL-5)-mediated disease reactions in damaged joints [2].

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>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[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.

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

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