## FPR2 agonist 2

MedChemExpress

Cat. No.:	HY-144604		
CAS No.:	2829263-20	-7	
Molecular Formula:	C <sub>25</sub> H <sub>20</sub> F <sub>2</sub> N <sub>4</sub> O	2	
Molecular Weight:	446.45		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Sol	utions	1 mM	2.2399 mL	11.1995 mL	22.3989 mL
		5 mM	0.4480 mL	2.2399 mL	4.4798 mL
		10 mM	0.2240 mL	1.1199 mL	2.2399 mL

BIOLOGICAL ACTIV	
Description	FPR2 agonist 2 is a potent and permeates the blood–brain barrier FPR2 agonist with an EC <sub>50</sub> of 0.13 μM, 1.1 μM for FPR2 and FPR1, respectively. FPR2 agonist 2 inhibits the production of pro-inflammatory cytokines, counterbalances the changes in mitochondrial function, and inhibits caspase-3 activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	EC <sub>50</sub> : 0.13 μM (FPR2); 1.1 μM (FPR1) <sup>[1]</sup>
In Vitro	<ul> <li>FPR2 agonist 2 (compound (S)-11l) (1-100 μM; 48 h) exhibits low cytotoxicity with an EC<sub>50</sub> value of 20.8 μM in N9 cells<sup>[1]</sup>.</li> <li>FPR2 agonist 2 (FPR1/FPR2 HL60 cells) shows agonist activity with EC<sub>50</sub>s of 0.13 μM, 1.1 μM (IC<sub>50</sub>s of 0.085 μM, Not determined) for FPR2 and FPR1, respectively<sup>[1]</sup>.</li> <li>FPR2 agonist 2 (0.1 μM) effectively blocks LPS-induced cell death and NO production and effectively suppresses the effect of LPS stimulation<sup>[1]</sup>.</li> <li>FPR2 agonist 2 (0.1 μM) counterbalances the changes in mitochondrial function, and inhibits caspase-3 activity<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Cell Viability Assay<sup>[1]</sup></li> </ul>

## Product Data Sheet

0 0

	Cell Line:	N9 cells
	Concentration:	1-100 μΜ
	Incubation Time:	48 h
	Result:	Exhibited low cytotoxicity with an $\text{EC}_{50}$ value of 20.8 $\mu\text{M}$ in N9 cells.
In Vivo	in the brain <sup>[1]</sup> .	g for i.v.; 10 mg/kg for i.p.) shows the ability to permeate the blood-brain barrier and to accumulate
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	in the brain <sup>[1]</sup> . MCE has not independe Animal Model:	ently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Mastromarino M, et al. Design, Synthesis, Biological Evaluation, and Computational Studies of Novel Ureidopropanamides as Formyl Peptide Receptor 2 (FPR2) Agonists to Target the Resolution of Inflammation in Central Nervous System Disorders. J Med Chem. 2022; 65(6):5004-5028.

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

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