## ACT-389949

Cat. No.:	HY-124071				
CAS No.:	1258417-54-7				
Molecular Formula:	C <sub>20</sub> H <sub>18</sub> F <sub>2</sub> N <sub>6</sub> O <sub>3</sub>				
Molecular Weight:	428				
Target:	Formyl Peptide Receptor (FPR)				
Pathway:	GPCR/G Protein				
Storage:	Powder -20°C 3 years * The compound is unstable in solutions, freshly prepared is recommended.				

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (23.36 mM; ultrasonic and adjust pH to 1 with HCl)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.3364 mL	11.6822 mL	23.3645 mL		
		5 mM	0.4673 mL	2.3364 mL	4.6729 mL		
		10 mM	0.2336 mL	1.1682 mL	2.3364 mL		
	Please refer to the sol	ubility information to select the ap	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.84 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.84 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% co g/mL (5.84 mM); Clear solution	rn oil				

BIOLOGICAL ACTIVITY					
Description	ACT-389949 is a first-in-class, potent and selective and agonist of formyl peptide receptor type 2 (FPR2)/Lipoxin A4 receptor (ALX), with an EC <sub>50</sub> of 3 nM for FPR2/ALX internalization into monocytes. ACT-389949 has potential for the treatment of inflammatory disorders <sup>[1][2]</sup> .				
IC <sub>50</sub> & Target	(FPR2)/(ALX) <sup>[1]</sup>				
In Vivo	ACT-389949 has well tolerated. Maximum concentrations are reached around 2 hours after dosing, with a mean terminal half-life of 29.3 hours <sup>[1]</sup> . Administration of ACT-389949 results in a dose-dependent, long-lasting internalization of FPR2/ALX into leukocytes <sup>[1]</sup> .				

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Product Data Sheet

# R MedChemExpress

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

### REFERENCES

[1]. Stalder AK, et al. Biomarker-guided clinical development of the first-in-class anti-inflammatory FPR2/ALX agonist ACT-389949. Br J Clin Pharmacol. 2017 Mar;83(3):476-486.

[2]. Lind S, et al. Functional and signaling characterization of the neutrophil FPR2 selective agonist Act-389949. Biochem Pharmacol. 2019 Aug;166:163-173.

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

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