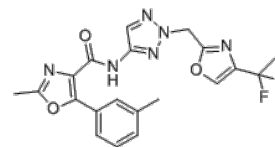

Product Name	: ACT-389949
Cat. No.	: PC-62594
CAS No.	: 1258417-54-7
Molecular Formula	: C ₂₀ H ₁₈ F ₂ N ₆ O ₃
Molecular Weight	: 428.4
Target	: Formyl peptide receptor (FPR)
Solubility	: 10 mM in DMSO



Biological Activity

ACT-389949 (ACT389949) is a novel potent and selective formyl peptide receptor type 2 (**FPR2**)/Lipoxin A4 receptor (ALX) agonist with EC₅₀ of 3 nM for FPR2/ALX internalization into monocytes.

ACT-389949 has potential for the treatment of inflammatory disorders.

ACT-389949 is an agonist for FPR2 that triggers functional/signaling repertoires comparable to what has been earlier described for other FPR2 agonists, including neutrophil chemotaxis, granule mobilization and activation of the NADPH-oxidase.

ACT-389949 is as potent as the prototype FPR2 peptide agonist WKYMVM and had the advantage of being resistant to oxidation by MPO-H₂O₂-halide derived oxidants, as compared to the sensitive WKYMVM.

ACT-389949 include an FPR2-dependent and Gαq-independent transient rise in intracellular Ca²⁺ and recruitment of β-arrestin in down-stream signals.

ACT-389949 is an excellent tool-compound for further dissection of FPR2-regulated activities in vitro and in vivo.

References

- Stalder AK, et al. *Br J Clin Pharmacol*. 2017 Mar;83(3):476-486.
- Lind S, et al. *Biochem Pharmacol*. 2019 Aug;166:163-173.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com
