Proteins

Screening Libraries

Product Data Sheet

FPR-A14

Cat. No.: HY-103472 CAS No.: 329691-12-5 Molecular Formula: $C_{23}H_{20}N_{2}O_{5}$ Molecular Weight: 404.42

Formyl Peptide Receptor (FPR) Target:

Pathway: GPCR/G Protein

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (309.08 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.4727 mL	12.3634 mL	24.7268 mL
	5 mM	0.4945 mL	2.4727 mL	4.9454 mL
	10 mM	0.2473 mL	1.2363 mL	2.4727 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	FPR-A14 is a potent formyl peptide receptor (FPR) agonist. FPR-A14 is a potent activator of neutrophil Ca^{2+} mobilization and chemotaxis with EC_{50} s of 630 nM and 42 nM, respectively. FPR-A14 induces cell differentiation ^{[1][2]} .
In Vitro	FPR-A14 (compound 14) activates Ca^{2+} release with an EC_{50} of 630 nM in human neutrophils. FPR-A14 is a neutrophil chemoattractant and dose-dependently induces neutrophil migration with an EC_{50} value of 42 nM ^[1] . FPR-A14 (1-10 μ M; 48h) elicites a significant increase in % cell differentiation versus controls at concentrations of 4 μ M (32.0%), 6 μ M (64.9%), 8 μ M (89.1%) and 10 μ M (93.3%) in mouse neuroblastoma N2a cells. FPRa14 (100 μ M) produces similar effects in IMR-32 and SH-SY5Y cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Igor A Schepetkin, et al. High-throughput screening for small-molecule activators of neutrophils: identification of novel N-formyl peptide receptor agonists. Mol Pharmacol. 2007 Apr;71(4):1061-74.

		on of Neuro2a mouse neuroblastoma (PLoS One. 2019 Jun 6;14(6):e0217815.	cells into multiple distinct morphologies
Caustians Duadoust has no	st hoon fully validated for me	odical amplications. For veccessh w	aa ambu
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