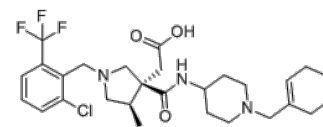

Product Name	: E 6130
Cat. No.	: PC-60779
CAS No.	: 1427058-33-0
Molecular Formula	: C ₂₈ H ₃₇ ClF ₃ N ₃ O ₃
Molecular Weight	: 556.067
Target	: Chemokine Receptor (CCR and CXCR)
Solubility	: 10 mM in DMSO



Biological Activity

E6130 is a potent, selective, orally available CX3C chemokine receptor 1 (**CX3CR1**) modulator that inhibits the fractalkine-induced chemotaxis of human peripheral blood NK cells with IC₅₀ of 4.9 nM.

E6130 shows no significant agonistic or antagonistic activity (EC₅₀ and IC₅₀>10 μM) for any other chemokine receptors.

E6130 induces the down-regulation of CX3CR1 on the cell surface of CD56⁺ NK cells with IC₅₀ of 5.2 nM, shows agonistic activity with respect to [35S]GTPγS binding (EC₅₀=133 nM) and β-arrestin recruitment (EC₅₀=2.4 μM) in CX3CR1-expressing CHO-K1 membrane.

E6130 inhibits the migration of CX3CR1⁺ immune cells, and ameliorates several inflammatory bowel disease-related parameters in murine CD4⁺CD45RB^{high} T-cell-transfer colitis model.

References

Wakita H, et al. *Mol Pharmacol*. 2017 Nov;92(5):502-509.

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

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