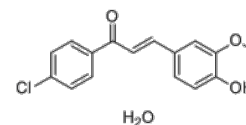

Product Name	: Chalcone 4 hydrate
Cat. No.	: PC-60261
CAS No.	: 1202866-96-3
Molecular Formula	: C ₁₆ H ₁₅ ClO ₄
Molecular Weight	: 306.74
Target	: Chemokine Receptor (CCR and CXCR)
Solubility	: 10 mM in DMSO



Biological Activity

Chalcone 4 hydrate is a potent, selective inhibitor of CXCL12 binding to **CXCR4 and CXCR7** with IC₅₀ of 200 nM. Chalcone 4 hydrate shows no activities for CCL5 and CXCL8 chemokines; inhibits calcium responses mediated by CXCR4 and prevents CXCR4 internalization. Chalcone 4 hydrate blocks chemotaxis of human peripheral blood lymphocytes ex vivo, shows activity in vivo in mouse model of allergic eosinophilic airway inflammation.

References

- Gasparik V, et al. *ACS Med Chem Lett.* 2011 Dec 9;3(1):10-4.
Hachet-Haas M, et al. *J Biol Chem.* 2008 Aug 22;283(34):23189-99.

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

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