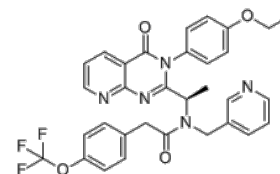


Product Name : AMG487
Cat. No. : PC-20733
CAS No. : 473719-41-4
Molecular Formula : C₃₂H₂₈F₃N₅O₄
Molecular Weight : 603.60
Target : Chemokine Receptor (CCR and CXCR)
Solubility : 10 mM in DMSO



CAS: 473719-41-4

Biological Activity

AMG487 (AMG 487, VUF10085) is a potent and selective orally bioavailable chemokine (C-X-C motif) receptor 3 (**CXCR3**) antagonist with IC₅₀ of 8 nM for inhibiting 125I-IP-10 binding.

AMG 487 also inhibits binding of 125I-ITAC to CXCR3 with an IC₅₀ value of 8.2 nM.

AMG487 inhibits CXCR3-mediated cell migration by the three CXCR3 chemokines (IP-10 IC₅₀ = 8 nM, ITAC IC₅₀ = 15 nM, and MIG IC₅₀ = 36 nM).

AMG487 inhibits calcium mobilization in response to ITAC (IC₅₀ = 5 nM).

AMG487 exhibits good potency in binding and functional assays and good in vivo pharmacokinetic properties across species. AMG487 is a potent inhibitor of cellular recruitment in vivo using a bleomycine-mouse model.

References

Verzijl D, et al. *J Pharmacol Exp Ther*. 2008 May;325(2):544-55. et al.

Johnson M, et al. *Bioorg Med Chem Lett*. 2007;17:3339-3343.

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

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