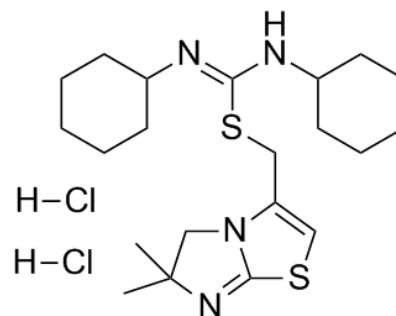


Product Name : IT1t dihydrochloride
Cat. No. : PC-42391
CAS No. : 1092776-63-0
Molecular Formula : C₂₁H₃₆Cl₂N₄S₂
Molecular Weight : 479.57334
Target : Chemokine Receptor (CCR and CXCR)
Solubility : DMSO: ≥ 30 mg/mL



Biological Activity

IT1t (Isothiourea 1t) dihydrochloride is a highly potent, selective, orally bioavailable **CXCR4** inhibitor with binding IC₅₀ of 8 nM for hCXCR4, IC₅₀ of 1.1 nM in Ca²⁺-mobilization assays.

IT1t inhibits HIV-1III_B attachment with IC₅₀ of 7 nM, and IC₉₀ of 100 nM.

IT1t also show promising anti-tumor effects, impairs the formation of TNBC early metastases in a zebrafish xenograft model.

References

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Das D, et al. *Antimicrob Agents Chemother*. 2015 Apr;59(4):1895-904.

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

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