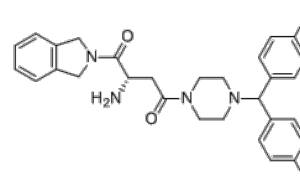


Product Name : 1G244
Cat. No. : PC-49843
CAS No. : 847928-32-9
Molecular Formula : C₂₉H₃₀F₂N₄O₂
Molecular Weight : 504.58
Target : Dipeptidyl Peptidase (DPP)
Solubility : 10 mM in DMSO



Biological Activity

1G244 is a potent and selective **DPP8/9** inhibitor with IC₅₀ of 14/53 nM and K_i of 0.9/4.2 nM, respectively. 1G244 did not inhibit DPP-IV, FAP, or DPP2 with IC₅₀ value of >100 uM. 1G244 was a slow-tight binding competitive inhibitor of DPP8, but it was a competitive and reversible inhibitor of DPP9. 1G244 blocks adipogenesis in preadipocyte 3T3-L1 and 3T3-F422A, while DPP4 and FAP inhibitors have no effect. 1G244 demonstrated anti-myeloma effects on several cell lines and CD138+ cells from patients as well as in murine xenograft model.

References

- Sato T, et al. *Sci Rep*. 2019 Dec 2;9(1):18094.
Wu JJ, et al. *Biochem Pharmacol*. 2009 Jul 15;78(2):203-10.
Han R, et al. *Sci Rep*. 2015 Aug 5;5:12348.

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

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