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Product Datasheet

1G244, CAS [[847928-32-9]] FBM-10-4584

Article Name	1G244, CAS [[847928-32-9]]
Biozol Catalog Number	FBM-10-4584
Supplier Catalog Number	10-4584
Alternative Catalog Number	FBM-10-4584-5MG,FBM-10-4584-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DPP8/9 inhibitor...
Molecular Weight	504.57
Purity	>98% by HPLC, NMR (Conforms)
Form	Off-white solid
CAS Number	[847928-32-9]
Formula	C ₂₉ H ₃₀ F ₂ N ₄ O ₂

Application Notes

Potent and selective inhibitor of the prolyl dipeptidases DPP8 (IC₅₀ = 14 nM) and DPP9 (IC₅₀ = 53 nM).^{1,2} It does not inhibit DPP2, DPP4 or fibroblast activation protein (FAP) at 100 μM.^{1,2} 1G244 is a slow binding competitive inhibitor of DPP8 but a competitive and reversible inhibitor of DPP9.² Inhibition of DPP8/9 by 1G244 has been shown to cause pro-caspase-1-dependent pyroptosis in macrophages and monocytes.³ 1G244 also induced cell death in DPP8/9 knockout cells at higher concentration indicating there may be some off-target effects.³ 1G244 blocks adipogenesis in preadipocyte 3T3-L1 and 3T3-F422A cells.⁴ DPP8/9 inhibition attenuates PPARγ2 induction during preadipocyte differentiation.⁴ Because of its inhibitory effects on pro-inflammatory macrophages, 1G244 inhibition of DPP8/9 has been examined as a potential therapy for reducing atherosclerosis and/or in the prevention of plaque rupture.^{5,6} Cell permeable.