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## Product Datasheet

### **1G244** **FBM-10-4584**

Artikelname	1G244
Artikelnummer	FBM-10-4584
Hersteller Artikelnummer	10-4584
Alternativnummer	FBM-10-4584-5MG,FBM-10-4584-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	DPP8/9 inhibitor...
Molekulargewicht	504.57
Reinheit	>98% by HPLC, NMR (Conforms)
Formulierung	Off-white solid
CAS Nummer	[847928-32-9]
Formel	C <sub>29</sub> H <sub>30</sub> F <sub>2</sub> N <sub>4</sub> O <sub>2</sub>

Anwendungsbeschreibung	<p>Potent and selective inhibitor of the prolyl dipeptidases DPP8 (IC<sub>50</sub> = 14 nM) and DPP9 (IC<sub>50</sub> = 53 nM).<sup>1,2</sup> It does not inhibit DPP2, DPP4 or fibroblast activation protein (FAP) at 100 μM.<sup>1,2</sup> 1G244 is a slow binding competitive inhibitor of DPP8 but a competitive and reversible inhibitor of DPP9.<sup>2</sup> Inhibition of DPP8/9 by 1G244 has been shown to cause pro-caspase-1-dependent pyroptosis in macrophages and monocytes.<sup>3</sup> 1G244 also induced cell death in DPP8/9 knockout cells at higher concentration indicating there may be some off-target effects.<sup>3</sup> 1G244 blocks adipogenesis in preadipocyte 3T3-L1 and 3T3-F422A cells.<sup>4</sup> DPP8/9 inhibition attenuates PPARγ2 induction during preadipocyte differentiation.<sup>4</sup> 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.<sup>5,6</sup> Cell permeable.</p>
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