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## Product Datasheet

### **DS18561882, CAS [[2227149-22-4]] FBM-10-4188**

Artikelname	DS18561882, CAS [[2227149-22-4]]
Artikelnummer	FBM-10-4188
Hersteller Artikelnummer	10-4188
Alternativnummer	FBM-10-4188-5MG,FBM-10-4188-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	MTHFD2 inhibitor...
Molekulargewicht	608.63
Reinheit	>98% by HPLC NMR (Conforms)
Formulierung	Pale yellow solid
CAS Nummer	[2227149-22-4]
Formel	C28H31F3N4O6S

Anwendungsbeschreibung	<p>Potent (IC<sub>50</sub> = 6.3 nM) and selective (&gt;90-fold over MTHFD1) inhibitor of the mitochondrial enzyme methylenetetrahydrofolate dehydrogenase 2 (MTHFD2), a key enzyme in one carbon metabolism in purine or thymidine biosynthesis.<sup>1</sup> It almost completely inhibited tumor growth in an MDA-MB-231 mouse xenograft model. DS18561882 treatment of triple-negative breast cancer cells lead to significant reduction of cancer cell proliferation but not apoptosis, however, in combination with Chk1 inhibitors it led to apoptotic cell death.<sup>2</sup> In combination with enzalutamide, it significantly inhibited castration resistant prostate cancer cells in vitro and in vivo.<sup>3</sup></p>
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