

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

DS18561882, CAS [[2227149-22-4]]

FBM-10-4188

Article Name	DS18561882, CAS [[2227149-22-4]]
Biozol Catalog Number	FBM-10-4188
Supplier Catalog Number	10-4188
Alternative Catalog Number	FBM-10-4188-5MG,FBM-10-4188-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	MTHFD2 inhibitor...
Molecular Weight	608.63
Purity	>98% by HPLC NMR (Conforms)
Form	Pale yellow solid
CAS Number	[2227149-22-4]
Formula	C28H31F3N4O6S
Application Notes	Potent (IC₅₀ = 6.3 nM) and selective (>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.¹ 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.² In combination with enzalutamide, it significantly inhibited castration resistant prostate cancer cells in vitro and in vivo.³