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## Product Datasheet

**MTX-531, CAS [[2791417-66-6]]**

**FBM-10-4802**

Article Name	MTX-531, CAS [[2791417-66-6]]
Biozol Catalog Number	FBM-10-4802
Supplier Catalog Number	10-4802
Alternative Catalog Number	FBM-10-4802-5MG, FBM-10-4802-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Dual EGFR/PI3K inhibitor...
Molecular Weight	453.95
Purity	>98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[2791417-66-6]
Formula	C22H20ClN5O2S
Application Notes	<p>MTX-531 is a first-in-class dual EGFR/pan-PI3K inhibitor (IC50s: EGFR = 14.7 nM, PI3K<math>\alpha</math> = 6.4 nM, PI3K<math>\beta</math> = 233 nM, PI3K<math>\gamma</math> = 8.3 nM, PI3K<math>\delta</math> = 1.1 nM, mTOR = 105 nM, DNA-PK = 5.4 nM). MTX-531 displayed exquisite selectivity for EGFR and PI3K family members (against &gt;400 protein/lipid kinases). It displayed efficacy in the treatment of head and neck squamous cell carcinomas and in combination with RAS inhibitors in BRAF-mutant and KRAS-mutant colorectal and pancreatic cancers. Additionally, it did not produce a hyperglycemic response that is typical for PI3K inhibitors. An interesting new chemical tool for cancer research that targets two key resistance drivers.</p>