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## Product Datasheet

**Avutometinib, CAS [[946128-88-7]]**

**FBM-10-4112**

Article Name	Avutometinib, CAS [[946128-88-7]]
Biozol Catalog Number	FBM-10-4112
Supplier Catalog Number	10-4112
Alternative Catalog Number	FBM-10-4112-5MG,FBM-10-4112-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Dual MEK/RAF inhibitor...
Molecular Weight	471.46
Purity	>98% by HPLC (NMR Conforms)
Form	White solid
CAS Number	[946128-88-7]
Formula	C <sub>21</sub> H <sub>18</sub> FN <sub>5</sub> O <sub>5</sub> S
Application Notes	<p>Avutometinib is a dual MEK/RAF inhibitor (IC<sub>50</sub>s: MEK = 160 nM, CRAF = 56 nM, BRAF = 19 nM, BRAF V600E = 8nM).<sup>1</sup> It directly inhibits unphosphorylated MEK without causing induction of MEK phosphorylation by RAF. The avutemetinib-MEK adduct is a dominant-negative inhibitor of RAF, stabilizing the MEK/RAF complex and locking in an inactive form. Avutometinib displayed efficacy across multiple RAS-mutated cancer cell lines and an SK-MEL-2 xenograft model.<sup>2</sup> It displayed synergistic effects with eribulin against triple-negative breast cancer cell lines.<sup>3</sup> Avutometinib also displayed efficacy in combination with the FAK inhibitor Defactinib in KRAS-mutated NSCLC cells.<sup>4</sup></p>