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## Product Datasheet

**ZSTK474, CAS [[475110-96-4]]**

**FBM-10-2180**

Article Name	ZSTK474, CAS [[475110-96-4]]
Biozol Catalog Number	FBM-10-2180
Supplier Catalog Number	10-2180
Alternative Catalog Number	FBM-10-2180-5MG, FBM-10-2180-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	PI 3-kinase inhibitor...
Molecular Weight	417.41
Purity	99% by HPLC NMR (Conforms)
Form	White or off-white solid
CAS Number	[475110-96-4]
Formula	C19H21F2N7O2
Application Notes	<p>Novel Class I phosphatidylinositol 3-kinase (PI3K) inhibitor. ZSTK474 is an ATP-competitive inhibitor of all four Class I PI3K isoforms. However, it inhibits PI3Kdelta most potently, with a <math>K_i</math> of 1.8 nM, while inhibiting the alpha, beta and gamma isoforms at slightly higher concentrations (6.7 nM, 10.4 nM and 11.7 nM, respectively)<sup>1</sup>. Displays potent antitumor activity against human cancer xenografts (A549, PC-3 and WiDr) when administered to mice<sup>2</sup>. It displays potent anti-inflammatory activity via modulation of human CD14+ monocyte-derived dendritic cell functions and suppresses experimental autoimmune encephalomyelitis<sup>3</sup>. Ameliorates the progression of adjuvant-induced arthritis in a rat model<sup>4</sup>.</p>