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Product Datasheet

3PO

FBM-10-4609

Article Name	3PO
Biozol Catalog Number	FBM-10-4609
Supplier Catalog Number	10-4609
Alternative Catalog Number	FBM-10-4609-10MG,FBM-10-4609-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	6-Phosphofructo-2-kinase (PFKFB3) inhibitor...
Molecular Weight	210.23
Purity	99% by HPLC, NMR (Conforms)
Form	Pale yellow solid
CAS Number	[18550-98-6]
Formula	C13H10N2O
Application Notes	<p>3PO is an inhibitor of the metabolic enzyme 6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3). PFKFB3 is constitutively expressed by neoplastic cells and is required for the high glycolytic rate (Warburg Effect) of these cells. 3PO inhibits PFKFB3 (IC₅₀ = 1.4 - 24 μM for various cancer cell lines), suppresses glucose uptake, and lowers intracellular concentrations of Fru-2,6-BP, lactate, ATP, NAD⁺, and NADH.¹ Inhibition of cancer cell metabolism via blocking the action of PFKFB3 has been studied in various models.²⁻⁴ Inhibition of PFKFB3 has been shown to induce autophagy as a survival mechanism in cancer cells.⁵ 3PO has also been used to reduce pathological angiogenesis.⁶</p>