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## Product Datasheet

### **3PO** **FBM-10-4609**

Artikelname	3PO
Artikelnummer	FBM-10-4609
Hersteller Artikelnummer	10-4609
Alternativnummer	FBM-10-4609-10MG,FBM-10-4609-50MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	6-Phosphofructo-2-kinase (PFKFB3) inhibitor...
Molekulargewicht	210.23
Reinheit	99% by HPLC, NMR (Conforms)
Formulierung	Pale yellow solid
CAS Nummer	[18550-98-6]
Formel	C13H10N2O

Anwendungsbeschreibung

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 ( $IC_{50} = 1.4 - 24 \mu M$  for various cancer cell lines), suppresses glucose uptake, and lowers intracellular concentrations of Fru-2,6-BP, lactate, ATP,  $NAD^+$ , and NADH.<sup>1</sup> Inhibition of cancer cell metabolism via blocking the action of PFKFB3 has been studied in various models.<sup>2-4</sup> Inhibition of PFKFB3 has been shown to induce autophagy as a survival mechanism in cancer cells.<sup>5</sup> 3PO has also been used to reduce pathological angiogenesis.<sup>6</sup>