

产品名称: **FG-2216**
 产品别名: **IOX3; YM311**

生物活性:					
Description	<p>FG-2216 (IOX3; YM311) is a potent HIF-prolyl hydroxylase inhibitor with IC50 of 3.9 μM for PDH2 enzyme; orally bioavailable and induced significant and reversible Epo induction in vivo. IC50 value: 3.9 μM [1]</p> <p>Target: PDH inhibitor FG-2216 was orally bioavailable and induced significant and reversible Epo induction in vivo (82- to 309-fold at 60 mg/kg). Chronic oral dosing in male rhesus macaques was well tolerated, significantly increased erythropoiesis, and prevented anemia induced by weekly phlebotomy. Furthermore, modest increases in HbF-containing red cells and reticulocytes were demonstrated by flow cytometry, though significant increases in HbF were not demonstrated by high-pressure liquid chromatography (HPLC) [2].</p>				
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : \geq 31 mg/mL (110.45 mM)</p> <p>* ">" means soluble, but saturation unknown.</p>				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	3.5630 mL	17.8151 mL	35.6303 mL
	Stock Solutions	5 mM	0.7126 mL	3.5630 mL	7.1261 mL
		10 mM	0.3563 mL	1.7815 mL	3.5630 mL
	<p>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。</p>				
References	<p>[1]. Hong YR, et al. [4-Hydroxyl-benzo[4,5]thieno[3,2-c]pyridine-3-carbonyl]-amino]-acetic acid derivatives: HIF prolyl 4-hydroxylase inhibitors as oral erythropoietin secretagogues. <i>Bioorg Med Chem Lett</i>. 2013 Nov 1;23(21):5953-7.</p> <p>[2]. Hsieh MM, et al. HIF prolyl hydroxylase inhibition results in endogenous erythropoietin induction, erythrocytosis, and modest fetal hemoglobin expression in rhesus macaques. <i>Blood</i>. 2007 Sep 15;110(6):2140-7.</p>				