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产品名称: INDEGLITAZAR
 产品别名: PPM 204

生物活性:					
Description	Indeglitazar is an orally available peroxisome proliferator-activated receptor (PPAR) pan-agonist for all three PPAR subtypes alpha (α), delta (δ) and gamma (γ).				
IC₅₀ & Target	PPAR α	PPAR δ	PPAR γ		
In Vitro	In an assay of preadipocyte differentiation, measuring in part functional insulin sensitization capability of the cells, Indeglitazar shows an EC ₅₀ of 0.32 μ M compared with Rosiglitazone, which shows an EC ₅₀ of 13 nM, although the maximal response obtained from the 2 compounds is comparable[1].				
In Vivo	An initial assessment of in vivo activity is carried out using the Zucker rat model of diabetes. The significant lowering of glucose, HbA _{1c} , triglycerides, and total cholesterol are observed after i.v. treatment with 10 mg/kg Indeglitazar once per day for 3 weeks. Notably, the level of Adiponectin (on day 21) is essentially unchanged in treated vs. untreated animals (4.8 mcg/mL vs. 4.9 mcg/mL), thus the observed reductions in glucose and HbA _{1c} are achieved in an adiponectin-independent fashion. These differences in the effects of Indeglitazar in vivo may be a consequence of synergy between the 3 PPAR activities or because of the SPPARM profile of the compound, or a combination of these factors. The oral activity of Indeglitazar is assessed in the <i>ob/ob</i> model of diabetes and insulin resistance. Indeglitazar significantly decreases glucose, insulin, triglycerides, and free fatty acid levels[1].				
Solvent&Solubility	In Vitro: DMSO : 33 mg/mL (84.74 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg
		Concentration			
	1 mM	2.5679 mL	12.8396 mL	25.6792 mL	
	5 mM	0.5136 mL	2.5679 mL	5.1358 mL	
	10 mM	0.2568 mL	1.2840 mL	2.5679 mL	
*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。 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。					
References	[1]. Artis DR, et al. Scaffold-based discovery of Indeglitazar, a PPAR pan-active anti-diabetic agent. Proc Natl Acad Sci U S A. 2009 Jan 6;106(1):262-7.				
实验参考:					
Animal Administration	<p>Rats[1] Indeglitazar is administered once daily i.v. as a solution (10% SolutolHS15,10%ethanol,80%saline) to ZDF/GmiCrl-fa/fa rats. Treatment is initiated at age 7-8 weeks, and blood samples are analyzed before the treatment and 21 days after the treatment.</p> <p>Mice[1] Ob/ob mouse study. Indeglitazar (10 mg/kg) or Pioglitazone (30 mg/kg) are orally administered to 9-week-old B6.V-Lepob mice for 14 days. Compounds are suspended in 0.5% methylcellulose and</p>				



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	2% Tween 80 before dosing. On the last day, blood is collected for insulin, triglyceride, free fatty acid, and adiponectin measurements.
Kinase Assay	The purified PPAR_LBD protein is diluted to 12 mg/mL and 1mM of Indeglitazar and 2x molar excess of steroid receptor coactivator-1 (SRC-1) peptide are added before crystallization by mixing equal volumes of a protein/compound sample with reservoir solution containing 27% polyethylene glycol (PEG) 4000, 0.1 M 2-(bis-(2-hydroxy-ethyl)-amino)-2-hydroxymethyl- propane-1,3-diol (BisTris) buffer at pH 6.5, 0.2 M ammonium acetate, and 5% glycerol. The crystals are soaked in cryo-protective buffer (30% PEG 4000, 0.1 M BisTris buffer at pH 6.5, 0.2 M ammonium acetate, and 5% glycerol) before flash-freezing in liquid nitrogen for data collection[1].
References	[1]. Artis DR, et al. Scaffold-based discovery of Indeglitazar, a PPAR pan-active anti-diabetic agent. Proc Natl Acad Sci U S A. 2009 Jan 6;106(1):262-7.



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