

Product Datasheet

Arhalofenate (orb1218311)

Catalog Number	orb1218311
Category	Small Molecules
Description	<p>Arhalofenate is a selective partial agonist of peroxisome proliferator-activated receptor PPARγ. It is used for the treatment of type 2 diabetes.(In Vitro):Arhalofenate (MBX 102) is a prodrug ester, that is rapidly and completely modified in vivo by non-specific serum esterases to the mature free acid form Arhalofenate (MBX 102) acid. Arhalofenate (MBX 102) shows a dose-dependent activation of mouse GAL4-PPAR-γ with EC50s of appr 12 μM.(In Vivo):Arhalofenate (MBX 102) (100 mg/kg, p.o.) significantly increases the glucose infusion rate and decreases hepatic glucose output in the clamped state in Zucker Diabetic Fatty (ZDF) rats. Arhalofenate (MBX 102) (60 mg/kg) leads to a dramatic decrease in plasma and also results in a dose-dependent, significant decrease in the insulin resistance indexinsulin levels. Arhalofenate (MBX 102) (100 mg/kg, p.o.) significantly decreases triglyceride, free fatty acid, and cholesterol levels in ZDF rats. MBX-102 significantly reduces fasting blood glucose, confirming that Arhalofenate (MBX 102) is an efficacious antidiabetic agent. Arhalofenate (MBX 102) (100 mg/kg, p.o.) also significantly lowers fasting plasma insulin, and robustly decreases fasting plasma triglycerides after 32 days of treatment in Zucker Fatty (ZF) rats.</p>
Target	PPAR
Purity	>98% (HPLC)
MW	415.79
Target Areas	PPAR γ
Solubility (25°C)	DMSO:10 mM
CAS Number	24136-23-0
Formula	$C_{19}H_{17}ClF_3NO_4$

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SMILES	<chem>CC(=O)NCCOC(=O)[C@@H](C1=CC=C(C=C1)Cl)OC2=CC=CC(=C2)C(F)(F)F</chem>
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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