

Product Datasheet

Elafibranor (orb1223638)

Catalog Number	orb1223638
Category	Small Molecules
Description	<p>A novel, potent dual PPAR α/δ agonist with EC50 of 45 and 175 nM, respectively; demonstrates liver-protective effects on steatosis, inflammation, and fibrosis in animal models of NAFLD/NASH and liver fibrosis; significantly reduces fasting plasma triglycerides and increases HDL cholesterol, also reduces γ glutamyl transferase levels. Diabetes Phase 3 Clinical (In Vitro): Elafibranor (GFT505) is being developed as a dual PPAR-α/PPAR-δ agonist for the treatment of T2DM and non-alcoholic fatty liver disease. Elafibranor has an active metabolite, GFT1007, and both have potent agonist activity for PPAR-α and to a lesser extent for PPAR-δ. (In Vivo): Elafibranor is well tolerated and does not cause weight gain or cardiac events, but does produce a mild, reversible increase in serum creatinine. Elafibranor improves glucose homeostasis, and lipid metabolism and reduces inflammation. Elafibranor (GFT505) treatment improves glucose control and plasma lipids in diabetic db/db mice. A significant dose-dependent reduction of hepatic expression of the key gluconeogenic enzymes glucose 6-phosphatase (G6Pase), PEPCK, and fructose 1,6-bisphosphatase 1 (FBP1) is observed with Elafibranor. Elafibranor does not induce cardiac adverse effects of PPARγ-activating agonists in monkeys.</p>
Target	PPAR
Purity	>98% (HPLC)
MW	384.4886
Target Areas	PPAR- α PPAR- δ
Solubility (25°C)	DMSO: \geq 33 mg/mL
CAS Number	923978-27-2
Formula	$C_{22}H_{24}O_4S$

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SMILES	<chem>CC(C)(OC1=C(C)C=C/C=C/C(C2=CC=C(SC)C=C2)=O)C=C1C)C(O)=O</chem>
Chemical Name	Propanoic acid, 2-[2,6-dimethyl-4-[(1E)-3-[4-(methylthio)phenyl]-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-
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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