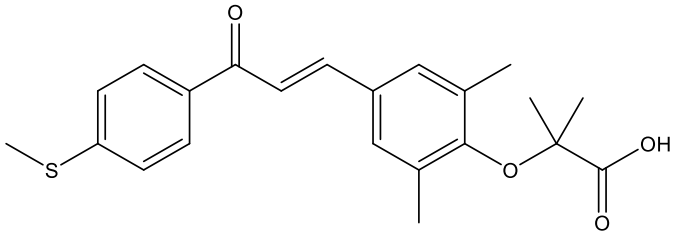
Catalog # 10-3901
Elafibranor

CAS# 923978-27-2

2-[2,6-Dimethyl-4-[(E)-3-(4-methylsulfanylphenyl)-3-oxoprop-1-enyl]phenoxy]-2-methylpropanoic acid; GFT505

Lot # FBS2026



Elafibranor is a dual PPARα/δ agonist (EC_{50} PPARα = 10-20 nM; PPARδ = 100-150 nM).[1] It was able to decrease plasma triglycerides levels[1], increase HDL cholesterol levels in human studies[1], and improve hepatic and peripheral insulin sensitivity[2]. Elafibranor's antidiabetic effects in db/db were without the adverse cardiac effects seen in PPARγ agonism.[3] Elafibranor has also been shown to have therapeutic promise in the treatment of nonalcoholic steatohepatitis (NASH).[4-6]

1) Cariou *et al.* (2011) *Effects of the New Dual PPARα/δ Agonist GFT505 on Lipid and Glucose Homeostasis in Abdominally Obese Patients With Combined Dyslipidemia or Impaired Glucose Metabolism;* Diabetes Care **34** 2008
2) Cariou *et al.* (2013) *Dual peroxisome proliferator receptor α/δ agonist GFT505 improves hepatic and peripheral insulin sensitivity in abdominally obese subjects;* Diabetes Care **36** 2923
3) Hanf *et al.* (2014) *The dual peroxisome proliferator-activated alpha/delta agonist GFT505 exerts anti-diabetic effects in db/db mice without peroxisome proliferator-activated receptor gamma-associated adverse cardiac effects.;* Diab. Vasc. Dis. Res. **11** 440
4) Staels *et al.* (2013) *Hepatoprotective effects of the dual peroxisome proliferator-activated receptor alpha-delta agonist, GFT505, in rodent models of nonalcoholic fatty liver disease/nonalcoholic steatohepatitis;* Hepatology **58** 1941
5) Ratziu *et al.* (2016) *Elafibranor, an Agonist of the Peroxisome Proliferator-Activated Receptor-α and -δ, Induces Resolution of Nonalcoholic Steatohepatitis Without Fibrosis Worsening.;* Gastroenterology. **39** 2951
6) Boeckmans *et al.* (2019) *Elafibranor restricts lipogenic and inflammatory responses in a human skin stem cell-derived model of NASH.;* Pharmacol. Res. **114** 377

PHYSICAL DATA

Molecular Weight:	384.49
Molecular Formula:	$C_{22}H_{24}O_4S$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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