**Product Name**: Elafibranor

**Catalog Number**: T4408

**CAS Number**: 923978-27-2

**Molecular Formula**: C22H24O4S

**Molecular Weight**: 384.49

**Description**: Elafibranor is an agonist of the peroxisome proliferator-activated receptor-α (PPAR-α) and peroxisome proliferator-activated receptor-δ (PPAR-δ) with EC50 values of 45 and 175 nM, respectively.

**Storage**: 2 years -80°C in solvent; 3 years -20°C powder;

**Solubility**

( < 1 mg/ml refers to the product slightly soluble or insoluble )

**Receptor (IC50)**

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<tr>
<th>Receptor</th>
<th>IC50</th>
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<tbody>
<tr>
<td>PPAR-α</td>
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<tr>
<td>PPAR-δ</td>
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**In vitro Activity**

GFT505 is being developed as a dual PPAR-α/PPAR-δ agonist for the treatment of T2DM and non-alcoholic fatty liver disease. GFT505 has an active metabolite, GFT1007, and both have potent agonist activity for PPAR-α and to a lesser extent for PPAR-δ.

**In vivo Activity**

GFT505 improves insulin sensitivity and early studies indicate it may be useful in non-alcoholic fatty liver disease which is being tested in a Phase Ib study. 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 insulin sensitivity, glucose homeostasis, and lipid metabolism and reduces inflammation. 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 GFT505. GFT505 does not induce cardiac adverse effects of PPARγ-activating agonists in monkeys.

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