
Product Data Sheet

Product Name: 15(S)-Fluprostenol

Cat. No.: GC40283

Chemical Properties

Cas. No. 54276-24-3

SMILES O[C@@H]1[C@H](C/C=C\CCCC(O)=O)[C@@H](/C=C/[C@H](O)COC2=CC(C(F)(F)F)=CC=C2)[C@H](O)C1Formula C₂₃H₂₉F₃O₆

M.Wt 458.5

Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 5 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

(+)-15(R)-Fluprostenol isopropyl ester is a prodrug (Travoprost) which is converted by esterase enzymatic activity in the cornea to yield the corresponding free acid. The free acid, (+)-15(R)-fluprostenol, is a potent FP receptor agonist. The 15(R)-epimers of most prostaglandins are about 100 times less potent than the natural, 15(S)-isomers. However, the neighboring phenoxy group at C-16 reverses the absolute configuration at C-15 in the fluprostenol series; hence, 15(S)-fluprostenol is less active as an FP agonist than 15(R)-fluprostenol. The biology of 15(S)-fluprostenol has not been widely studied.

Caution: Product has not been fully validated for medical applications. For research use only.

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