

16(R)-AFP 07 free acid

Chemical Properties

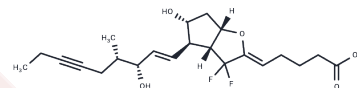
CAS No. : 773825-80-2

Formula: C₂₂H₃₀F₂O₅

Molecular Weight: 412.47

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|---|
| Description | Prostaglandin I ₂ is an unstable prostaglandin compound that inhibits platelet aggregation and induces vasodilation in the pulmonary vasculature via the "I ₁ prostanoid" (IP) receptor. AFP 07, a 7,7-difluoroprostanoyl derivative, serves as a selective and potent agonist for the IP receptor (K _i =0.561 nM). It exhibits weaker affinity for EP receptors, with a K _i value of > 100 nM for EP ₁₋₃ and > 10 nM for EP ₄ . The compound 16(R)-AFP 07 free acid is an enantiomer of AFP 07. Its biological properties, particularly those involving IP and EP receptors, are yet to be fully assessed. |
| Targets(IC ₅₀) | Prostaglandin Receptor |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.4244 mL | 12.1221 mL | 24.2442 mL |
| 5 mM | 0.4849 mL | 2.4244 mL | 4.8488 mL |
| 10 mM | 0.2424 mL | 1.2122 mL | 2.4244 mL |
| 50 mM | 0.0485 mL | 0.2424 mL | 0.4849 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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