

Product Datasheet

16(R)-AFP 07 free acid (orb3134469)

Catalog Number	orb3134469
Category	Small Molecules
Description	Prostaglandin I2 is an unstable prostaglandin compound that inhibits platelet aggregation and induces vasodilation in the pulmonary vasculature via the "I prostanoid" (IP) receptor. AFP 07, a 7,7-difluoroprostacyclin 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 EP1-3 and > 10 nM for EP4. 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.
Target	Prostaglandin Receptor
MW	412.47
CAS Number	773825-80-2
Formula	$C_{22}H_{30}F_2O_5$
SMILES	<chem>C(=C/[C@@H]([C@H](CC#CCC)C)O)\[C@@H]1[C@@]2([C@@](O/C(=C\CCCC(O)=O)/C2(F)F)(C[C@H]1O)[H])[H]</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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