

FR-181157

## Chemical Properties

CAS No. : 171046-15-4  
 Formula: C<sub>30</sub>H<sub>27</sub>NNaO<sub>4</sub>  
 Molecular Weight: 488.539  
 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	FR-181157, a novel prostaglandin (PG) mimetic, shows high potency and agonist efficacy at the IP receptor and has good bioavailability.
Targets(IC50)	Others,Prostaglandin Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0469 mL	10.2346 mL	20.4692 mL
5 mM	0.4094 mL	2.0469 mL	4.0938 mL
10 mM	0.2047 mL	1.0235 mL	2.0469 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 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.

## Reference

Tanaka A, Hattori K, Taniguchi K, Okitsu O, Tabuchi S, Nishio M, Nagakura Y, Maeda N, Murai H, Seki J. Replacing the cyclohexene-linker of FR181157 leading to novel IP receptor agonists: orally active prostacyclin mimetics. Part 6. Bioorg Med Chem Lett. 2006 Sep 15;16(18):4861-4. Epub 2006 Jul 11. PubMed PMID: 16837197.

Hattori K, Takamura F, Tanaka A, Takasugi H, Taniguchi K, Nishio M, Koyama S, Seki J, Sakane K. Metabolism investigation leading to novel drug design: orally active prostacyclin mimetics. Part 4. Bioorg Med Chem Lett. 2005 Jul 1;15(13):3284-7. PubMed PMID: 15935659.

Hattori K, Tabuchi S, Okitsu O, Taniguchi K. A simple stereoselective synthesis and biological evaluation of FR181157: orally active prostacyclin mimetic. Bioorg Med Chem Lett. 2003 Dec 15;13(24):4277-9. PubMed PMID: 14643308.

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