

EP3 antagonist 3

Chemical Properties

CAS No. : 1227827-88-4

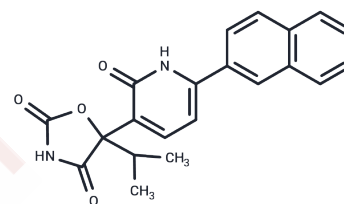
Formula: C₂₁H₁₈N₂O₄

Molecular Weight: 362.38

Store at low temperature

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

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| Description | EP3 antagonist 3, a potent and selective EP3 antagonist with the advantage of oral activity, significantly inhibited GR63799- or acetic acid-induced reduction in bladder capacity and PGE2-induced overactive bladder model in spontaneously hypertensive rats (SHR). |
| Targets(IC50) | Prostaglandin Receptor |

Solubility Information

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| Solubility | DMSO: 200 mg/mL (551.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.7595 mL | 13.7977 mL | 27.5953 mL |
| 5 mM | 0.5519 mL | 2.7595 mL | 5.5191 mL |
| 10 mM | 0.276 mL | 1.3798 mL | 2.7595 mL |
| 50 mM | 0.0552 mL | 0.276 mL | 0.5519 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

Jin J, et al. Novel 3-Oxazolidinedione-6-aryl-pyridinones as Potent, Selective, and Orally Active EP3 Receptor Antagonists. ACS Med Chem Lett. 2010 May 14;1(7):316-20.

Ceddia RP, Downey JD, Morrison RD, Kraemer MP, Davis SE, Wu J, Lindsley CW, Yin H, Daniels JS, Breyer RM. The effect of the EP3 antagonist DG-041 on male mice with diet-induced obesity. Prostaglandins Other Lipid Mediat. 2019 Oct;144:106353.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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