

EP4 Antagonist 14

Chemical Properties

CAS No. :

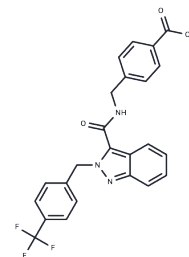
Formula: C₂₄H₁₈F₃N₃O₃

Molecular Weight: 453.41

Keep away from moisture

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

EP4 antagonist 14 is a prostaglandin E2 receptor subtype EP4 antagonist, demonstrating an IC₅₀ of 1.1 nM in a HEK293 human receptor reporter assay and blocking β-arrestin recruitment due to PGE₂ with an IC₅₀ of 0.9 nM. At 10 μM, it reduces PGE₂-stimulated mRNA levels of Il-4, macrophage mannose receptor 1 (Mrc1), chitinase-like protein 3 (Chil3), chemokine (C-X-C) motif ligand 1 (Cxcl1), triggering receptor expressed on myeloid cells 2 (Trem2), and arginase-1 (Arg1) in RAW 264.7 macrophages. When used at 30 mg/kg per day alongside anti-PD-1 antibodies, it curbs tumor growth and enhances CD8+ T cell infiltration in tumors using a CT26 murine colon cancer model.

Solubility Information

Solubility

DMF: 20 mg/mL (44.11 mM), Sonication is recommended.
 DMSO: 20 mg/mL (44.11 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2055 mL	11.0275 mL	22.0551 mL
5 mM	0.4411 mL	2.2055 mL	4.411 mL
10 mM	0.2206 mL	1.1028 mL	2.2055 mL
50 mM	0.0441 mL	0.2206 mL	0.4411 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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