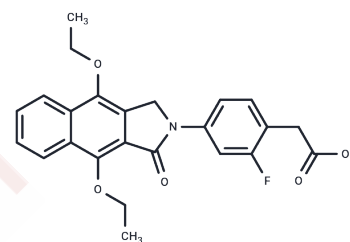


GSK726701A

Chemical Properties

CAS No. : 945721-87-9
 Formula: C₂₄H₂₂FNO₅
 Molecular Weight: 423.43
 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	GSK726701A is a new type of prostaglandin E2 receptor 4 (EP4) partial agonist (pEC ₅₀ : 7.4).
Targets(IC ₅₀)	Others, Prostaglandin Receptor
In vitro	GSK726701A demonstrates high selectivity (>100-fold) for its target prostaglandin receptors (EP1-3, DP1, FP, IP, TP) and exhibits no significant activity against a broader range of other targets.
In vivo	GSK726701A exhibits robust efficacy in various animal models for both inflammatory and neuropathic pain. Demonstrating time-dependent, complete reversal of CCI-induced mechanical allodynia at a dosage of 3mg/kg, GSK726701A matches the efficacy of the clinically acclaimed gabapentin, administered at 30mg/kg. Additionally, GSK726701A possesses an ED ₅₀ value of 0.2mg/kg in the FCA acute rat model of inflammatory pain, and showcases favorable pharmacokinetics across rat, dog, and monkey studies.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3617 mL	11.8083 mL	23.6167 mL
5 mM	0.4723 mL	2.3617 mL	4.7233 mL
10 mM	0.2362 mL	1.1808 mL	2.3617 mL
50 mM	0.0472 mL	0.2362 mL	0.4723 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

Healy MP, et al. Discovery of {4-[4,9-bis(ethoxy)-1-oxo-1,3-dihydro-2H-benzo[f]isoindol-2-yl]-2-fluorophenyl} acetic acid (GSK726701A), a novel EP4 receptor partial agonist for the treatment of pain. *Bioorg Med Chem Lett*. 2018 Jun 1;28(10):1892-1896.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481