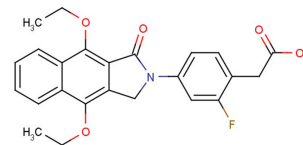


GSK726701A

Chemical Properties

CAS No.:	945721-87-9
Formula:	C ₂₄ H ₂₂ FN ₂ O ₅
Molecular Weight:	423.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	GSK726701A is a new type of prostaglandin E2 receptor 4 (EP4) partial agonist (pEC ₅₀ : 7.4).
Targets(IC ₅₀)	Others: None
In vitro	GSK726701A has high selectivity (>100-fold) against a set of other prostaglandin receptors (EP1-3, DP1, FP, IP, TP) and no significant activity against a wider panel of targets.
In vivo	GSK726701A has robust activity in a range of animal models of inflammatory and neuropathic pain. GSK726701A demonstrates a time-dependant, full reversal of CCI-induced mechanical allodynia at 3mg/kg, equivalent to the clinical gold standard gabapentin (30mg/kg). GSK726701A has an ED ₅₀ of 0.2mg/kg in the FCA acute rat model of inflammatory pain. GSK726701A has a good pharmacokinetic file in rats, dogs, and monkeys.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.362 mL	11.808 mL	23.617 mL
5 mM	0.472 mL	2.362 mL	4.723 mL
10 mM	0.236 mL	1.181 mL	2.362 mL
50 mM	0.047 mL	0.236 mL	0.472 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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