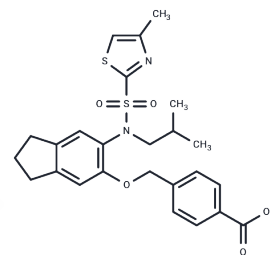


ONO-8130

Chemical Properties

CAS No. : 459841-96-4
Formula: C₂₅H₂₈N₂O₅S₂
Molecular Weight: 500.63
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	ONO-8130 is an orally available antagonist of EP1 receptor.
Targets(IC50)	PERK, Prostaglandin Receptor
In vivo	Oral preadministration of ONO-8130 at 0.3-30 mg/kg strongly prevented both the bladder pain-like behavior and referred hyperalgesia in a dose-dependent manner, but had slight effect on the increased bladder weight and vascular permeability. Oral ONO-8130 at 30 mg/kg also reversed the established cystitis-related bladder pain. Intravesical administration of prostaglandin E2 caused prompt phosphorylation of ERK in the L6 spinal cord, an effect blocked by ONO-8130. The prostaglandin E2/EP1 system participates in processing of cystitis-related bladder pain, and that EP1 antagonists including ONO-8130 are useful for treatment of bladder pain, particularly in interstitial cystitis. Prostaglandin E2 contributes to cystitis-related bladder pain via EP1 receptors in mice, indicating possible therapeutic usefulness of selective EP1 antagonists[1].

Solubility Information

Solubility	DMSO: 5.01 mg/mL (10.01 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	1.9975 mL	9.9874 mL	19.9748 mL
5 mM	0.3995 mL	1.9975 mL	3.995 mL
10 mM	0.1997 mL	0.9987 mL	1.9975 mL
50 mM	0.0399 mL	0.1997 mL	0.3995 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

Miki T , Matsunami M , Nakamura S , et al. ONO-8130, a selective prostanoid EP1 receptor antagonist, relieves bladder pain in mice with cyclophosphamide-induced cystitis.[J]. Pain, 2011, 152(6):1373-1381.

Baker S , Kraak G . Investigating the role of prostaglandin receptor isoform EP4b in zebrafish ovulation[J]. General and Comparative Endocrinology, 2019, 283:113228.

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