

ONO-8130

## Chemical Properties

CAS No. : 459841-96-4

Formula: C<sub>25</sub>H<sub>28</sub>N<sub>2</sub>O<sub>5</sub>S<sub>2</sub>

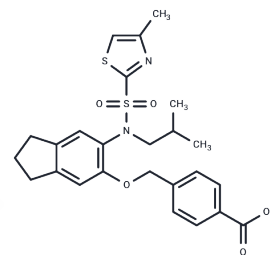
Molecular Weight: 500.63

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	<p>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.</p> <p>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].</p>

## 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

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	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

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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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