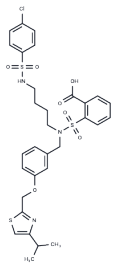
Data Sheet (Cat.No.T11764)

KP496

Chemical Properties



CAS No. : 217799-03-6

Formula: C31H34ClN3O7S3

Molecular Weight: 692.27

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	KP496 is a selective, dual antagonist for the Thromboxane A2 receptor (TP) and the Leukotriene D4 receptor (cysLT1).
Targets(IC50)	Others,Leukotriene Receptor,Prostaglandin Receptor
In vivo	KP496 and prednisolone markedly reduce the rise in hydroxyl-L-proline levels in the lung, showing an inhibition ratio of approximately 74% and 63%, respectively, when compared to their own vehicle control groups. Both compounds at doses of KP496 (100 mg/head) and prednisolone (10 mg/kg) significantly decrease the infiltration of total cells, including eosinophils, monocytes/macrophages, and lymphocytes, relative to the control group. Additionally, KP496 at a lower dose (30mg/head) reduces the infiltration of these cell types, except for neutrophils, albeit not significantly. Furthermore, KP496 effectively curtails both acute (day 7) and chronic (day 21) lung inflammation, reducing lymphocyte numbers by day 7 and counts of macrophages, neutrophils, and eosinophils on days 7 and 21.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4445 mL	7.2226 mL	14.4452 mL
5 mM	0.2889 mL	1.4445 mL	2.889 mL
10 mM	0.1445 mL	0.7223 mL	1.4445 mL
50 mM	0.0289 mL	0.1445 mL	0.2889 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

Kurokawa S, et al. Effect of inhaled KP-496, a novel dual antagonist of the cysteinyl leukotriene and thromboxane A2 receptors, on a bleomycin-induced pulmonary fibrosis model in mice. Pulm Pharmacol Ther. 2010 Oct;23(5):425-31.

Ishimura M, et al. Effects of KP-496, a novel dual antagonist for cysteinyl leukotriene receptor 1 and thromboxane A2 receptor, on Sephadex-induced airway inflammation in rats. Biol Pharm Bull. 2009 Jun;32(6):1057-61.

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