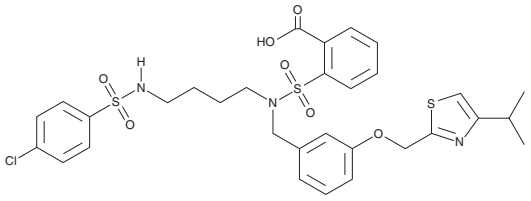
PRODUCT INFORMATION

KP496

Item No. 46561

CAS Registry No.:	217799-03-6
Formal Name:	2-[[[4-[[(4-chlorophenyl)sulfonyl]amino]butyl][[3-[[4-(1-methylethyl)-2-thiazolyl]methoxy]phenyl]methyl]amino]sulfonyl]-benzoic acid
MF:	$C_{31}H_{34}ClN_3O_7S_3$
FW:	692.3
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

KP496 is supplied as a solid. A stock solution may be made by dissolving the KP496 in the solvent of choice, which should be purged with an inert gas. KP496 is soluble (≥10 mg/ml) in DMSO.

Description

KP496 is a dual antagonist of the cysteinyl leukotriene 1 ($CysLT_1$) receptor and TP receptor.[1] It inhibits contractions induced by leukotriene D_4 (LTD_4; Item No. 20310) or U-46619 (Item No. 16450) in guinea pig tracheal segments (pA_2s = 8.64 and 8.23, respectively) but not those induced by histamine, acetylcholine (ACh), serotonin (5-HT), or substance P at 10 µM, and it does not affect β_2-adrenergic receptor (β_2-AR) agonist-induced relaxation in precontracted guinea pig tracheal segments at 10 µM. However, KP496 does inhibit contractions induced by prostaglandin D_2 (PGD_2) or $PGF_{2\alpha}$ in guinea pig tracheal segments at 0.1 and 1 µM, respectively. Intranasal administration of KP496 (0.05%) decreases cedar pollen-induced increases in specific airway resistance in a guinea pig model of allergic rhinitis.[2] It decreases fibrosis, inflammation, and bronchoalveolar lavage fluid (BALF) immune cell infiltration in a mouse model of pulmonary fibrosis induced by bleomycin (Item No. 13877).[3]

References

1. Ishimura, M., Kataoka, S., Suda, M., *et al.* Effects of KP-496, a novel dual antagonist for leukotriene D_4 and thromboxane A_2 receptors, on contractions induced by various agonists in the guinea pig trachea. *Allergol. Int.* **55(4)**, 403-410 (2006).
2. Mizutani, N., Suda, M., Ishimura, M., *et al.* Effects of KP-496, a novel dual antagonist of leukotriene D_4 and thromboxane A_2 receptors on nasal blockage in guinea pig models of allergic rhinitis. *Inflamm. Res.* **57(6)**, 247-251 (2008).
3. Kurokawa, S., Suda, M., Okuda, T., *et al.* Effect of inhaled KP-496, a novel dual antagonist of the cysteinyl leukotriene and thromboxane A_2 receptors, on a bleomycin-induced pulmonary fibrosis model in mice. *Pulm. Pharmacol. Ther.* **23(5)**, 425-431 (2010).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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