



# LKT Laboratories, Inc.

## Ketotifen Fumarate

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### Product Information

**Product ID** K1776

**CAS No.** 34580-14-8

**Chemical Name** 4,9-Dihydro-4-(1-methyl-4-piperidylidene)-10H-benzo[4,5]cyclohepta[1,2-b]thiophen-10-one fumarate

**Synonym** Allerlif, Totifen, Zaditen, Zasten

**Formula**  $C_{19}H_{19}NOS \cdot C_4H_4O_4$

**Formula Wt.** 425.50

**Melting Point** 192 °C(dec.)

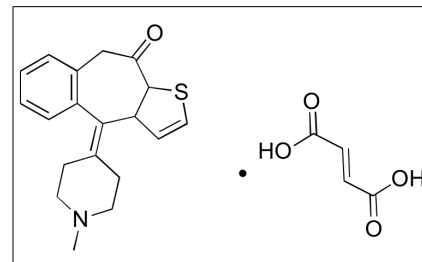
**Purity** ≥98%

**Solubility** Soluble in water (10 mg/mL), ethanol (0.5 mg/mL), DMSO (25 mg/mL), DMF (25 mg/mL), methanol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Ketotifen is a second-generation antihistamine that exhibits anti-allergic, anti-asthma, anti-inflammatory, and immunosuppressive activities. Ketotifen inhibits H1 histamine receptors, phosphodiesterases (PDEs), and leukotriene receptors; it also acts as a mast cell stabilizer. In animal models of acute lung injury, ketotifen inhibits mast cell activation, suppresses activation of NF- $\kappa$ B, and downregulates expression of TNF- $\alpha$ , IL-1 $\beta$ , and IL-6. In animal models of *Trichinella* infection, this compound decreases humoral and cellular immune responses.



**Bulk quantities available upon request**

Product ID	Size
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K1776	500 mg
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K1776	1 g
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**References** Zhang A, Chi X, Luo G, et al. Mast cell stabilization alleviates acute lung injury after orthotopic autologous liver transplantation in rats by downregulating inflammation. PLoS One. 2013 Oct 8;8(10):e75262. PMID: 24116032.

Doligalska M. Effect of ketotifen on the immune response in BALB/c mice infected with *Trichinella spiralis*. Wiad Parazytol. 2000;46(2):217-24. PMID: 16886340.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.