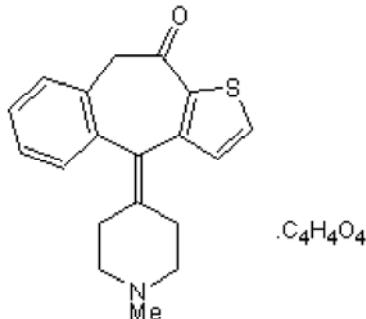


Certificate of Analysiswww.tocris.com**Product Name:** Ketotifen fumarate**Catalog No.:** 0784**Batch No.:** 8

CAS Number: 34580-14-8

EC Number: 252-100-0

IUPAC Name: 4,9-Dihydro-4-(1-methyl-4-piperidinylidene)-10H-benzo[4,5]cyclohepta[1,2-*b*]thiophen-10-one fumarate**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₉H₁₉NOS.C₄H₄O₄**Batch Molecular Weight:** 425.5**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.9% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 64.92 5.45 3.29

Found 65.05 5.32 3.35

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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CAS Number: 34580-14-8

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

Catalog No.: 0784

Batch No.: 8

EC Number: 252-100-0

Description:

An H₁ receptor antagonist.

Physical and Chemical Properties:

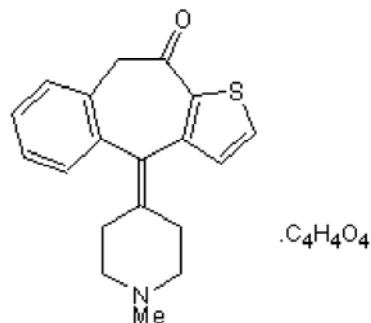
Batch Molecular Formula: C₁₉H₁₉NOS.C₄H₄O₄

Batch Molecular Weight: 425.5

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Abu-Dalu *et al* (1996) The actions of ketotifen on intestinal smooth muscles. *Eur.J.Pharmacol.* **309** 189. PMID: 8874138.

Martin and Römer (1978) The pharmacological properties of a new orally active antianaphylactic compound: ketotifen, a benzocycloheptathiophene. *Arzneimittelforschung* **28** 770. PMID: 35171.

Merck Index 5319.

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