

Product Name: Suplatast tosylate

Catalog No.: 3543

Batch No.: 1

CAS Number: 94055-76-2

IUPAC Name: [3-[[4-(3-Ethoxy-2-hydroxypropoxy)phenyl]amino]-3-oxopropyl]dimethylsulfonium 4-methylbenzenesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₆NO₄S.C₇H₇O₃S

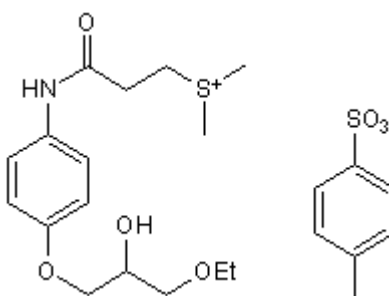
Batch Molecular Weight: 499.64

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 84 - 86°C

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.29	6.66	2.8
Found	55.32	6.22	2.86

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Description:

Th2 cytokine inhibitor that attenuates IL-2, IL-5 and IL-13 production and has no effect on IFN- γ production. Acts as an immunoregulator that suppresses IgE production, eosinophil infiltration and histamine release. Exhibits antiasthmatic, anti-inflammatory and antifibrotic activity in vivo and is orally active.

Physical and Chemical Properties:

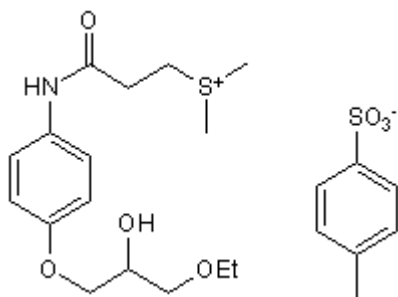
Batch Molecular Formula: C₁₆H₂₆NO₄S.C₇H₇O₃S

Batch Molecular Weight: 499.64

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol 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:

Kurokawa et al (2001) Suppressive effects of anti-allergic agent suplatast tosylate (IPD-1151T) on the expression of co-stimulatory molecules on mouse splenocytes *in vivo*. *Mediators Inflamm.* **10** 333. PMID: 11817674.

Hsu et al (2007) The effects of suplatast tosylate (IPD-1151T) on innate immunity and antigen-presenting cells. *Transpl.Immunol.* **18** 108. PMID: 18005853.

Furonaka et al (2009) Suplatast tosylate prevents bleomycin-induced pulmonary fibrosis in mice. *J.Pharmacol.Exp.Ther.* **328** 55. PMID: 18832650.

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