

Catalog # 10-2896

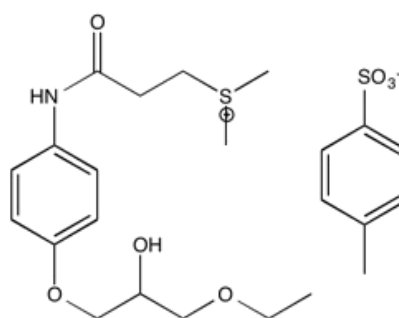
Suplatast tosilate

CAS# 94055-79-2

[3-[[4-(3-Ethoxy-2-hydroxypropoxy)phenyl]amino]-3-oxopropyl]dimethylsulfonium

4-Methylbenzenesulfonate; IPD 1151T

Lot # X108651



A potent immunoregulator that suppresses IgE production.¹ Suppresses innate immunity by down-regulating TLR2, TLR4 and CD14 gene expression on splenocytes stimulated with LPS and TLR2/TLR4 agonists.² Prevents bleomycin-induced pulmonary fibrosis in mouse models.³ Potent inhibitor of Th2 cells *in vivo* and together with a Treg cell inhibitor promotes BCG vaccine efficacy against tuberculosis.⁴ Antiasthmatic agent effective for antileukotriene nonresponders.⁵ Orally active.

- 1) Kurokawa *et al.* (2001), *Suppressive effects of anti-allergic agent suplatast tosilate (IPD-1151T) on the expression of co-stimulatory molecules on mouse splenocytes in vivo*; *Mediators Inflamm.*, **10** 333
- 2) Hsu *et al.* (2007), *The effects of suplatast tosilate (IPD-1151T) on innate immunity and antigen-presenting cells*; *Transpl. Immunol.*, **18** 108
- 3) Furonaka *et al.* (2009), *Suplatast tosilate prevents bleomycin-induced pulmonary fibrosis in mice*; *Curr. Opin. J. Pharmacol. Exp. Ther.*, **328** 55
- 4) Bhattacharya *et al.* (2014), *Simultaneous inhibition of T helper 2 and T regulatory cell differentiation by small molecules enhances Bacillus Calmette-Guerin vaccine efficacy against tuberculosis*; *J. Biol. Chem.*, **289** 33404
- 5) Wada *et al.* (2009), *Effect of suplatast tosilate on antileukotriene non-responders with mild-to-moderate persistent asthma*; *Allergol. Int.*, **58** 389

PHYSICAL DATA

Molecular Weight:	499.64
Molecular Formula:	C ₁₆ H ₂₆ NO ₄ S C ₇ H ₇ O ₃ S
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Water (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com