

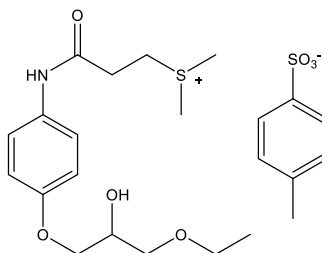
Catalog # 10-2896

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.

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