



LKT Laboratories, Inc.

Ramatroban

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## Product Information

Product ID R0248  
CAS No. 116649-85-5  
Chemical Name

Synonym

Formula  $C_{21}H_{21}FN_2O_4S$   
Formula Wt. 416.47

Melting Point

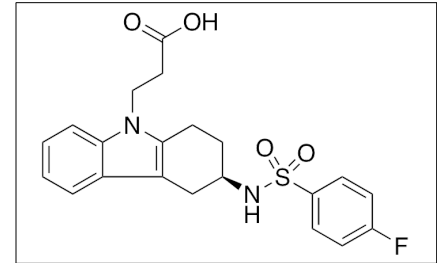
Purity  $\geq 98\%$

Solubility Ethanol (30 mg/ml), DMSO  
(30 mg/ml), DMF (30  
mg/ml)

Store Temp Ambient

Ship Temp Ambient

**Description** Ramatroban is a thromboxane A<sub>2</sub> (TxA<sub>2</sub>) receptor inhibitor that exhibits anti-allergic and anti-inflammatory properties. Ramatroban also competitively inhibits chemoattractant receptor-homologous molecule on Th2 cells (CRTH2), a relatively new prostaglandin D<sub>2</sub> (PGD<sub>2</sub>) receptor. Ramatroban decreases expression of inflammatory mediator IL-16 and also inhibits expression of adhesion molecules and prevents infiltration of immune cells.



**Bulk quantities available upon request**

Product ID	Size
R0248	5 mg
R0248	10 mg
R0248	25 mg
R0248	100 mg

**References** Suzuki Y, Inoue T, Yamamoto A, et al. Prophylactic effects of the histamine H<sub>1</sub> receptor antagonist epinastine and the dual thromboxane A<sub>2</sub> receptor and chemoattractant receptor-homologous molecule expressed on Th2 cells antagonist ramatroban on allergic rhinitis model in mice. *Biol Pharm Bull.* 2011;34(4):507-10. PMID: 21467637.

Akiyama K, Karaki M, Kobayashi R, et al. IL-16 variability and modulation by antiallergic drugs in a murine experimental allergic rhinitis model. *Int Arch Allergy Immunol.* 2009;149(4):315-22. PMID: 19295235.

Sugimoto H, Shichijo M, Okano M, et al. CRTH2-specific binding characteristics of [<sup>3</sup>H]ramatroban and its effects on PGD<sub>2</sub>-, 15-deoxy-Delta<sup>12</sup>, 14-PGJ<sub>2</sub>- and indomethacin-induced agonist responses. *Eur J Pharmacol.* 2005 Nov 7;524(1-3):30-7. PMID: 16256979.

Shiraishi Y, Asano K, Nakajima T, et al. Prostaglandin D<sub>2</sub>-induced eosinophilic airway inflammation is mediated by CRTH2 receptor. *J Pharmacol Exp Ther.* 2005 Mar;312(3):954-60. PMID: 15528449.

Ishizuka T, Matsui T, Okamoto Y, et al. Ramatroban (BAY u 3405): a novel dual antagonist of TXA<sub>2</sub> receptor and CRTh2, a newly identified prostaglandin D<sub>2</sub> receptor. *Cardiovasc Drug Rev.* 2004 Summer;22(2):71-90. PMID: 15179446.

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