



LKT Laboratories, Inc.

Ozagrel Hydrochloride

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Product Information

Product ID O9702

CAS No. 82571-53-7

Chemical Name

Synonym 3-[4-(1H-imidazol-1-ylmethyl)phenyl]-2E-propenoic acid,
OKY-046

Formula $C_{13}H_{12}N_2O_2 \cdot HCl$

Formula Wt. 264.71

Melting Point

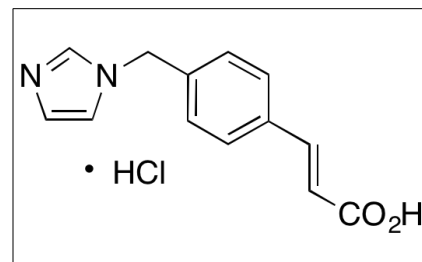
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Ozagrel is an inhibitor of thromboxane A₂ (TxA₂) synthase that displays antithrombotic, anti-asthma, and anti-allergic activities. In vivo, ozagrel decreases airway responses to inhalation of leukotriene C₄ (LTC₄) and TxA₂ analog STA₂, inhibiting secondary release of TxA₂. In other animal models of bronchoconstriction, ozagrel increases levels of prostaglandin I₂ (PGI₂), inhibiting histamine release. In clinical settings, ozagrel decreases airway contraction in subjects with exercise-induced asthma. In diabetic mice, this compound inhibits retinal arteriolar constriction, preventing decreases in retinal blood flow associated with diabetes-induced retinopathy. Additionally, ozagrel displays cardioprotective activity, decreasing infarct size and thrombus formation in animal models of ischemia-induced myocardial injury. Ozagrel is also hepatoprotective, inhibiting expression of Jun, Fos, and C/EBP homologous protein (CHOP), preventing acetaminophen-induced liver injury.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
O9702	10 mg	\$97.10
O9702	25 mg	\$194.60
O9702	100 mg	\$622.20

References Sathler PC, Santana M, Lourenço AL, et al. Human thromboxane synthase: comparative modeling and docking evaluation with the competitive inhibitors Dazoxiben and Ozagrel. J Enzyme Inhib Med Chem. 2013 Aug 5. Epub ahead of print. PMID: 23914925.

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Lee S, Morgan GA, Harris NR. Ozagrel reverses streptozotocin-induced constriction of arterioles in rat retina. Microvasc Res. 2008 Nov;76(3):217-23. PMID: 18718478.

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Hoshino M, Fukushima Y. Effect of OKY-046 (thromboxane A₂ synthetase inhibitor) on exercise-induced asthma. J Asthma. 1991;28(1):19-29. PMID: 1849133.

Nambu F, Murakata S, Shiraji T, et al. OKY-046 inhibits anaphylactic bronchoconstriction and reduces histamine level in bronchoalveolar lavage fluid in sensitized guinea pigs. Prostaglandins. 1990 Jun;39(6):623-37. PMID:

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