

Ozagrel

Catalog No: tcsc2534



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

82571-53-7

Formula:

$C_{13}H_{12}N_2O_2$

Pathway:

Metabolic Enzyme/Protease

Target:

Factor Xa

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

OKY-046

Observed Molecular Weight:

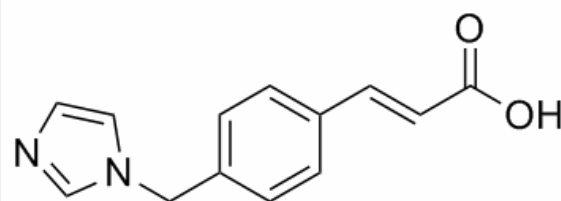
228.25

Product Description

Ozagrel(OKY-046) is an antiplatelet agent working as a thromboxane A2 synthesis inhibitor.

Target: Thromboxane A2 Synthase

Ozagrel was selected as the best compound of highly selective inhibitors of TXA2 synthase. The inhibition of TXA2 synthase by ozagrel was more effective on human and rabbit enzymes than those of other species. Ozagrel increased 6-keto-PGF1 alpha, one of stable metabolites of PGI2, in various isolated cells and tissues perhaps via accumulated PG endoperoxides resulted by the inhibition of TXA2 synthase [1]. Ozagrel was estimated to be a reversible mixed-type inhibitor of diphenolase activity with the constants (K (S1), K (S2), K (i1), and K (i2)) determined to be 2.21, 3.89, 0.454, and 0.799 mM, respectively [2]. Infusion of OKY-046 significantly inhibited pulmonary thromboxane B2 delivery, attenuated the early increase in pulmonary vascular resistance, and blocked the increase in systemic vascular resistance. In addition, OKY-046 blunted and delayed the decrease in cardiac output and maintained end-systolic pressure-diameter relation, +dp/dt, and lung lymph flow at baseline values [3].



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