

Certificate of Analysis

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Product Name: Ozagrel hydrochloride

Catalog No.: 1510

Batch No.: 3

CAS Number: 78712-43-3

IUPAC Name: (2E)-3-[4-(1H-imidazol-1-ylmethyl)phenyl]-2-propenoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₂N₂O₂.HCl.½H₂O

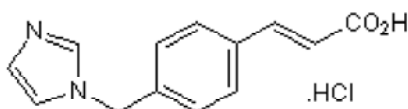
Batch Molecular Weight: 273.72

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.05	5.16	10.23
Found	57.42	5.23	10.25

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

Potent and selective inhibitor of thromboxane (TXA₂) synthetase (IC₅₀ = 4 nM). Does not inhibit prostacyclin (PGI₂) synthetase, cyclooxygenase or PGE₂ isomerase (IC₅₀ > 1 mM). Inhibits platelet aggregation in vitro and arachidonate-induced arterial contraction in vivo.

Physical and Chemical Properties:

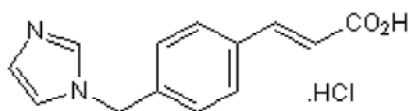
Batch Molecular Formula: C₁₃H₁₂N₂O₂.HCl.½H₂O

Batch Molecular Weight: 273.72

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Shinagawa et al (2000) Participation of thromboxane A₂ in the cough response in guinea-pigs: antitussive effect of ozagrel. Br.J.Pharmacol. **131** 266. PMID: 10991919.

Hiraku et al (1986) Pharmacological studies on the TXA₂ synthetase inhibitor (E)-3-[p-(1H-imidazol-1-ylmethyl)phenyl]-2-propenoic acid (OKY-046). Jpn.J.Pharmacol. **41** 393. PMID: 3093741.

Naito et al (1983) Effects of thromboxane synthetase inhibitors on aggregation of rabbit platelets. Eur.J.Pharmacol. **91** 41. PMID: 6413227.

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