

Certificate of Analysis

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Product Name: SR 2640 hydrochloride

Catalog No.: 1804

Batch No.: 2

CAS Number: 146662-42-2

IUPAC Name: 2-[[3-(2-Quinolylmethoxy)phenyl]amino]benzoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{18}N_2O_3 \cdot HCl \cdot \frac{1}{4}H_2O$

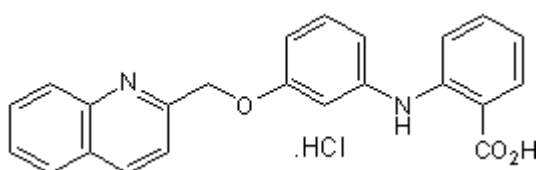
Batch Molecular Weight: 411.37

Physical Appearance: Tan solid

Solubility: DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.76$ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Melting Point: Between 202 - 204°C

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.15	4.78	6.81
Found	67.24	4.88	6.84

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

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Description:

Potent and selective competitive leukotriene D₄ and E₄ receptor antagonist. Inhibits LTD₄- but not histamine-induced guinea pig ileum and trachea contraction (pA₂ = 8.7). Also inhibits LTD₄-attenuation of human PMN chemotaxis. Orally active in vivo.

Physical and Chemical Properties:

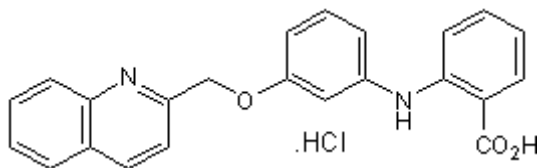
Batch Molecular Formula: C₂₃H₁₈N₂O₃.HCl.¼H₂O

Batch Molecular Weight: 411.37

Physical Appearance: Tan solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Ahnfelt-Ronne et al (1988) A novel leukotriene D₄/E₄ antagonist, SR2640 (2-[3-(2-quinolylmethoxy)phenylamino]benzoic acid). *Eur.J.Pharmacol.* **155** 117. PMID: 2854067.

Thomsen and Ahnfelt-Ronne (1989) Inhibition by the LTD₄ antagonist, SR2640, of effects of LTD₄ on canine polymorphonuclear leukocyte functions. *Biochem.Pharmacol.* **38** 2291. PMID: 2546563.

Bouchelouche et al (1990) LTD₄ increases cytosolic free calcium and inositol phosphates in human neutrophils: inhibition by the novel LTD₄ receptor antagonist, SR2640, and possible relation to modulation of chemotaxis. *Agents Actions* **29** 299. PMID: 2160189.

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 50 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.

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