

Certificate of Analysis

Print Date: Jan 18th 2016

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Product Name: SC 57461A Catalog No.: 3107 Batch No.: 2

CAS Number: 423169-68-0

IUPAC Name: N-methyl-N-[3-[4-(phenylmethyl)phenoxy]propyl]-β-alanine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₅NO₃.HCl

Batch Molecular Weight: 363.88

Physical Appearance: White solid

Solubility: water to 25 n

water to 25 mM DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

Microanalysis:

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 66.01 7.2 3.85 Found 66.21 7.26 3.84



Product Information

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IUPAC Name: N-methyl-N-[3-[4-(phenylmethyl)phenoxy]propyl]-β-alanine hydrochloride

Description:

Potent and selective inhibitor of LTA₄ hydrolase. Does not inhibit other enzymes of the arachidonic acid cascade including COX-1, COX-2, LTC₄ synthase and 5-lipoxygenase. Potently inhibits LTB₄ production in whole blood (IC₅₀ = 49 nM). Orally active.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{20}H_{25}NO_3.HCI$

Batch Molecular Weight: 363.88 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 25 mM DMSO 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:

Penning *et al* (2002) Synthesis of potent leukotriene A₄ hydrolase inhibitors. Identification of 3-[methyl[3-[4-(phenylmethyl)phenoxy] propyl]amino]propanoic acid. J.Med.Chem. *45* 3482. PMID: 12139459.

Askonas *et al* (2002) Pharmacological characterization of SC-57461A (3-[methyl[3-[4-(phenylmethyl)phenoxy]propyl]amino]propanoic acid HCl), a potent and selective inhibitor of leukotriene A_4 hydrolase I: in vitro studies. J.Pharmacol.Exp.Ther. **300** 577. PMID: 11805219.

Kachur *et al* (2002) Pharmacological characterization of SC-57461A (3-[methyl[3-[4-(phenylmethyl)phenoxy]propyl]amino]propanoic acid HCl), a potent and selective inhibitor of leukotriene A₄ hydrolase II: in vivo studies. J.Pharmacol.Exp.Ther. *300* 583. PMID: 11805220