

Product Name: BAY-X 1005

Catalog No.: 3541

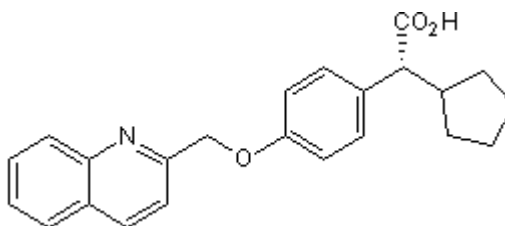
Batch No.: 1

CAS Number: 128253-31-6

IUPAC Name: (R)- α -Cyclopentyl-4-(2-quinolinylmethoxy)benzeneacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₃NO₃
Batch Molecular Weight: 361.43
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows >99.9% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -41.2 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 76.43 | 6.41 | 3.88 |
| Found | 76.2 | 6.44 | 3.9 |

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

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Description:

5-lipoxygenase activating protein (FLAP) inhibitor. Inhibits the synthesis of leukotrienes B₄ and C₄ in animal models; inhibits synthesis of leukotriene B₄ in A23187-stimulated leukocytes (IC₅₀ values are 0.026, 0.039 and 0.22 μ M for rat, mice and human leukocytes respectively). Displays anti-inflammatory activity. Orally active.

Physical and Chemical Properties:

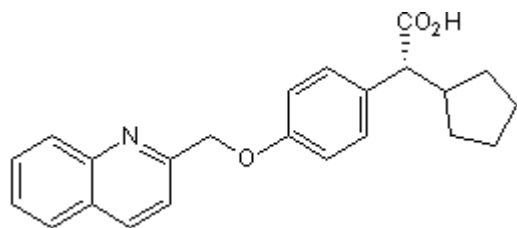
Batch Molecular Formula: C₂₃H₂₃NO₃

Batch Molecular Weight: 361.43

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Muller-Peddinghaus *et al* (1993) BAY X1005, a new inhibitor of leukotriene synthesis: in vivo inflammation pharmacology and pharmacokinetics. *J.Pharmacol.Exp.Ther.* **267** 51. PMID: 8229782.

Fruchtmann *et al* (1993) In vitro pharmacology of BAY X1005, a new inhibitor of leukotriene synthesis. *Agents Actions* **38** 188. PMID: 8213345.

Hatzelmann *et al* (1994) Mode of action of the leukotriene synthesis (FLAP) inhibitor BAY X 1005: implications for biological regulation of 5-lipoxygenase. *Agents Actions* **43** 64. PMID: 7741044.

Storage: Store at RT

Solubility & Usage Info:

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.

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