

## Certificate of Analysis

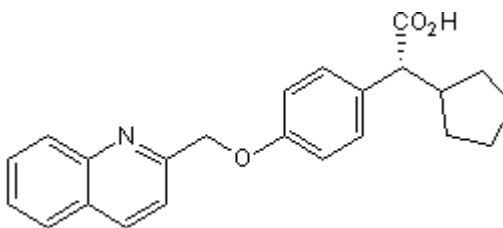
[www.tocris.com](http://www.tocris.com)

**Product Name:** BAY-X 1005  
**CAS Number:** 128253-31-6  
**IUPAC Name:** (R)- $\alpha$ -Cyclopentyl-4-(2-quinolinylmethoxy)benzeneacetic acid

**Catalog No.:** 3541 **Batch No.:** 1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>23</sub>NO<sub>3</sub>  
**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<sub>f</sub> = 0.2 (Ethyl acetate:Petroleum ether [1:2])  
**HPLC:** Shows >99.9% purity  
**Chiral HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -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

## Product Information

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### Description:

5-lipoxygenase activating protein (FLAP) inhibitor. Inhibits the synthesis of leukotrienes B<sub>4</sub> and C<sub>4</sub> in animal models; inhibits synthesis of leukotriene B<sub>4</sub> in A23187-stimulated leukocytes (IC<sub>50</sub> values are 0.026, 0.039 and 0.22  $\mu$ M for rat, mice and human leukocytes respectively). Displays anti-inflammatory activity. Orally active.

### Physical and Chemical Properties:

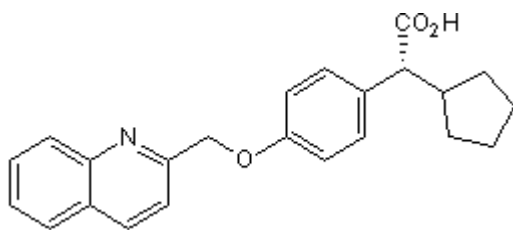
Batch Molecular Formula: C<sub>23</sub>H<sub>23</sub>NO<sub>3</sub>

Batch Molecular Weight: 361.43

Physical Appearance: Beige solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**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.

### 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.

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