

## Certificate of Analysis

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**Product Name:** BW-B 70C

**Catalog No.:** 1304

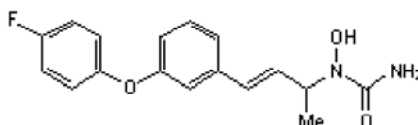
**Batch No.:** 2

CAS Number: 134470-38-5

IUPAC Name: *N*-[3-[3-(4-Fluorophenoxy)phenyl]-1-methyl-2-propenyl]-*N*-hydroxyurea

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>FN<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 316.33  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 3 mM  
 DMSO to 3 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.31 (Dichloromethane:Methanol [9:1])  
**Melting Point:** Between 130 - 131°C  
**HPLC:** Shows >98.6% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	
Theoretical	64.55	5.42	8.86	0.00
Found	64.35	5.52	8.89	0.00

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

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**Description:**

Potent and selective inhibitor of 5-lipoxygenase. Long half-life and high oral bioavailability in vivo.

**Physical and Chemical Properties:**

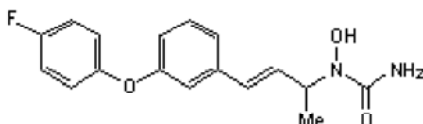
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>FN<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 316.33

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

ethanol to 3 mM

DMSO to 3 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:**

**Yeadon *et al*** (1993) Effect of BW B70C, a novel inhibitor of arachidonic acid 5-lipoxygenase, on allergen-induced bronchoconstriction and late-phase lung eosinophil accumulation in sensitised guinea-pigs. *Agents Actions* **38** 8. PMID: 8480540.

**Payne *et al*** (1991) Hydroxamic acids and hydroxyureas as novel, selective 5-lipoxygenase inhibitors for possible use in asthma. *Agents Actions Suppl.* **34** 189. PMID: 1793063.

**Salmon *et al*** (1990) Inhibition of 5-lipoxygenase: development of hydroxamic acids and hydroxyureas as potential therapeutic agents. *Adv.Prost.Throm.Leuk.Res.* **21** 109. PMID: 1847758.

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