

Product Name: BW-B 70C

Catalog No.: 1304

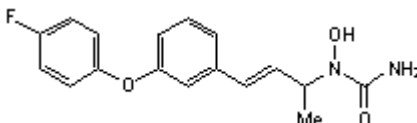
Batch No.: 2

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: C₁₇H₁₇FN₂O₃
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_f = 0.31 (Dichloromethane:Methanol [9:1])
Melting Point: Between 130 - 131°C
HPLC: Shows >98.6% purity
¹H NMR: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen | | |
|-------------|--------|----------|----------|---|---|
| Theoretical | 64.55 | 5.42 | 8.86 | 0 | 0 |
| Found | 64.35 | 5.52 | 8.89 | 0 | 0 |

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

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Description:

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

Physical and Chemical Properties:

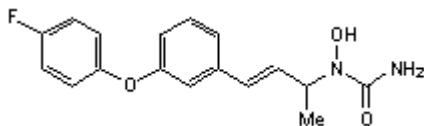
Batch Molecular Formula: C₁₇H₁₇FN₂O₃

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:

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.

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.

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.

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