

Certificate of Analysis

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Product Name: Benzbromarone

Catalog No.: 5420

Batch No.: 1

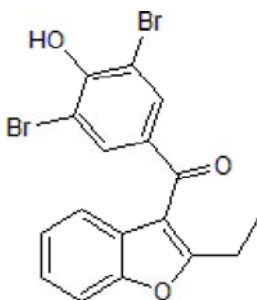
CAS Number: 3562-84-3

EC Number: 222-630-7

IUPAC Name: (3,5-Dibromo-4-hydroxyphenyl)(2-ethyl-3-benzofuranyl)methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂Br₂O₃
Batch Molecular Weight: 424.08
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Greater than 152°C
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.15	2.85	
Found	48.26	2.83	

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

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IUPAC Name: (3,5-Dibromo-4-hydroxyphenyl)(2-ethyl-3-benzofuranyl)methanone

Description:

TMEM16A/B calcium-activated chloride channel (CaCC) blocker. Inhibits ATP-induced mucin secretion and metacholine-induced airway smooth muscle contraction in vitro.

Physical and Chemical Properties:

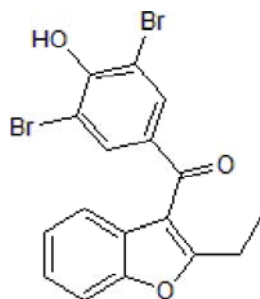
Batch Molecular Formula: C₁₇H₁₂Br₂O₃

Batch Molecular Weight: 424.08

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Gallos *et al* (2013) Functional expression of the TMEM16 family of calcium-activated chloride channels in airway smooth muscle. *Am.J.Physiol.Lung Cell Mol.Physiol.* **305** 625. PMID: 23997176.

Huang *et al* (2012) Calcium-activated chloride channel TMEM16A modulates mucin secretion and airway smooth muscle contraction. *Proc.Natl.Acad.Sci.U.S.A.* **109** 16354. PMID: 22988107.

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