

## Certificate of Analysis

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**Product Name:** BTC

**Catalog No.:** 5421

**Batch No.:** 1

**CAS Number:** 63676-22-2

**IUPAC Name:** 2-(4-Hydroxyphenyl)benzo[*b*]thiophene-6-ol

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>10</sub>O<sub>2</sub>S

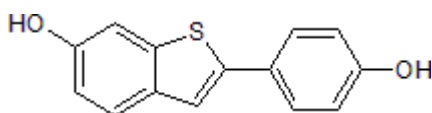
**Batch Molecular Weight:** 242.29

**Physical Appearance:** Beige solid

**Solubility:** DMSO to 50 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen		
	Theoretical	69.4	4.16
	Found	69.42	4.19

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

## Product Information

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**IUPAC Name:** 2-(4-Hydroxyphenyl)benzo[*b*]thiophene-6-ol

### Description:

Selective estrogen receptor modulator (SERM); induces regression of tamoxifen-resistant, hormone independent xenograft tumors. Displays no significant gain in uterine weight in treated mice.

### Physical and Chemical Properties:

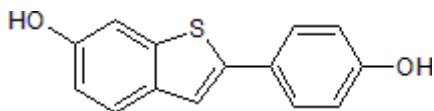
Batch Molecular Formula: C<sub>14</sub>H<sub>10</sub>O<sub>2</sub>S

Batch Molecular Weight: 242.29

Physical Appearance: Beige solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 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:

**Molloy et al** (2014) Novel selective estrogen mimics for the treatment of tamoxifen-resistant breast cancer. *Mol.Cancer.Ther.* **13** 2515. PMID: 25205655.

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