

# **Certificate of Analysis**

Print Date: Jan 29th 2016

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**Product Name:** BC 11-38 Catalog No.: 4496 Batch No.: 1

CAS Number: 686770-80-9

**IUPAC Name:** 6,7-Dihydro-3-phenyl-2-(propylthio)thieno[3,2-d]pyrimidin-4(3H)one

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

 $C_{15}H_{16}N_2OS_2$ **Batch Molecular Formula:** 

304.43 **Batch Molecular Weight:** White solid **Physical Appearance:** 

Solubility: DMSO to 100 mM

ethanol to 20 mM

Storage: Store at +4°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

At 161°C **Melting Point:** 

HPLC: Shows 98% purity

<sup>1</sup>H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

> Theoretical 59.18 9.2 5.3 Found 59.23 5.34 9.13

**Europe Middle East Africa** 



# **Product Information**

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IUPAC Name: 6,7-Dihydro-3-phenyl-2-(propylthio)thieno[3,2-d]pyrimidin-4(3H)one

## **Description:**

Selective phosphodiesterase (PDE) 11 inhibitor ( $IC_{50}$  = 0.28  $\mu$ M for PDE11;  $IC_{50}$  values are >100  $\mu$ M for PDE1 - PDE10). Significantly elevates cAMP levels and cortisol production in H295R human adenocarcinoma cells.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>OS<sub>2</sub> Batch Molecular Weight: 304.43 Physical Appearance: White solid

Minimum Purity: >98%

#### **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:

Ceyhan et al (2012) Identification of biologically active PDE11-selective inhibitors using a yeast-based high-throughput screen. Chem.Biol. 19 155. PMID: 22284362.