

# **Certificate of Analysis**

Print Date: Jul 28th 2018

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Product Name: LY 2603618 Catalog No.: 6454 Batch No.: 1

CAS Number: 911222-45-2

IUPAC Name: N-[5-Bromo-4-methyl-2-[(2S)-2-morpholinylmethoxy)phenyl]-N'-(5-methyl-2-pyrazinyl)urea

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{18}H_{22}BrN_5O_3.1/4H_2O$ 

Batch Molecular Weight: 440.8

Physical Appearance: White solid

Solubility: DMSO to 20 mM Storage: Store at -20°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

**HPLC:** Shows 99.1% purity

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

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 49.05 5.14 15.89 Found 48.93 4.93 15.55



# **Product Information**

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#### **Description:**

Potent and selective Chk1 inhibitor ( $IC_{50} = 7$  nM). Inhibits Chk1 autophosphorylation. Induces cell cycle arrest in the G2/M phase and induces the DNA damage response in lung cancer cells. Inhibits growth of NSCLC xenografts in mice when administered in combination with Pemetrexed (Cat.No. 6185).

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

Batch Molecular Formula: C<sub>18</sub>H<sub>22</sub>BrN<sub>5</sub>O<sub>3</sub>.1/4H<sub>2</sub>O

Batch Molecular Weight: 440.8 Physical Appearance: White solid

**Minimum Purity:** >98%

#### **Batch Molecular Structure:**

Storage: Store at -20°C

#### Solubility & Usage Info:

DMSO 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:

**Calvo** *et al* (2014) Preclinical analyses and phase I evaluation of LY2603618 administered in combination with pemetrexed and cisplatin in patients with advanced cancer. Invest.New Drugs **32** 955. PMID: 24942404.

Wang et al (2014) The checkpoint 1 kinase inhibitor LY2603618 induces cell cycle arrest, DNA damage response and autophagy in cancer cells. Apoptosis 19 1389. PMID: 24928205.