

Product Name: LY 2603618

Catalog No.: 6454

Batch No.: 1

CAS Number: 911222-45-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₂BrN₅O₃·¼H₂O

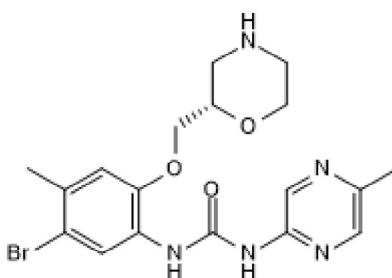
Batch Molecular Weight: 440.8

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H 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

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

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Description:

LY 2603618 is a potent and selective Chk1 inhibitor (IC₅₀ = 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:

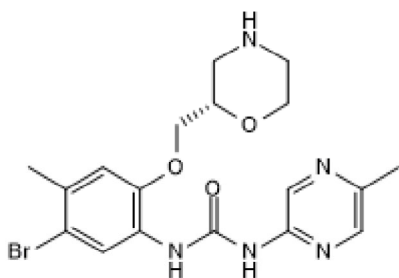
Batch Molecular Formula: C₁₈H₂₂BrN₅O₃·¼H₂O

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 pemet. and cisp. 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.

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