

# Certificate of Analysis

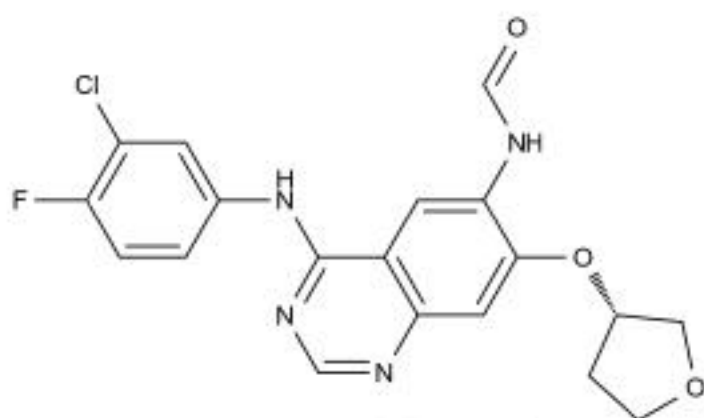
## Reference Material & Standard

|                           |                                                                                                                      |                          |                                           |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | (S)-N-(4-((3-Chloro-4-fluorophenyl)amino)-7-((tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)formamide (Afatinib Impurity) | <b>Catalogue Number:</b> | C1500823                                  |
| <b>Synonyms:</b>          | N/A                                                                                                                  | <b>Lot Number:</b>       | 0522-SA-7007                              |
| <b>CAS Number:</b>        | 2223677-60-7                                                                                                         | <b>Expiry Date:</b>      | May 21, 28                                |
| <b>Molecular Formula:</b> | C <sub>19</sub> H <sub>16</sub> ClFN <sub>4</sub> O <sub>3</sub>                                                     | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 402.81                                                                                                               |                          |                                           |

Warning:



Chemical Structure:



## Test Items

Appearance

Identification:

Purity:

## Method

Visual inspection

LC&HNMR

HPLC

## Results

Solid

Confirmed

98.466%

CATO Research Chemicals Inc.

Signature:

Prepared by:

*Lisa*

Reviewed by:

*Yuki*

Approved by General Manager:

*David*

Date: May 22, 24

Date: May 22, 24

Date: May 22, 24



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



Official  
WeChat

## Directions:

1. *Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
2. *Minimum sample size: 1mg is recommended as the minimum sample size.*
3. *Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
4. *Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | May 22, 24 | First release.      |

