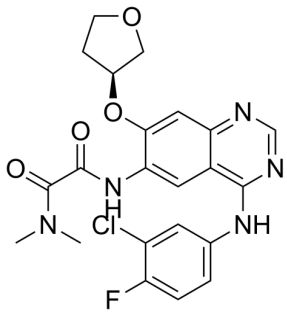


## Certificate of Analysis

### Compound Information

|                            |   |
|----------------------------|---|
| <b>Product Name:</b>       | (S)-N1-(4-((3-Chloro-4-fluorophenyl)amino)-7-((tetrahydrofuran-3-yl)oxy)quinazolin-6-yl)-N2,N2-dimethylxalamide (Afatinib Impurity) |
| <b>Cat. No.:</b>           | 1234898   |
| <b>CAS No.:</b>            | 2223677-66-3  |
| <b>Molecular Formula:</b>  | C <sub>22</sub> H <sub>21</sub> ClFN <sub>5</sub> O <sub>4</sub>  |
| <b>Molecular Weight:</b>   | 473.88  |
| <b>Chemical Structure:</b> |   |

### Batch Information

|                     |                           |
|---------------------|---------------------------|
| <b>Batch No.:</b>   | Le1130110827              |
| <b>Storage:</b>     | 2-8°C, protect from light |
| <b>Test Date:</b>   | 2021-12-01                |
| <b>Retest Date:</b> | 2024-11-30                |
| <b>Origin:</b>      | Shanghai, China           |

### QC Summary

|                                    |   |
|------------------------------------|---|
| <b>Appearance:</b>                 | Off-white to light yellow (Solid)                                       |
| <b><sup>1</sup>H NMR Spectrum:</b> | Consistent with structure   |
| <b>LCMS:</b>                       | Consistent with structure   |
| <b>Purity (LCMS):</b>              | 99.93%  |
| <b>Conclusion:</b>                 | The product has been tested and complies with the given specifications. |

Caution: Research use only and are not intended for human use.

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