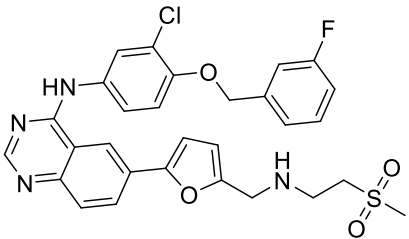




## Certificate of Analysis

| MedKoo Cat#: | Product Name:         | Lot#:     |
|--------------|-----------------------|-----------|
| 100490A      | Lapatinib (free base) | A21T08K20 |

| Chemical name   |  |
|---|--|
| N-(3-chloro-4-((3-fluorobenzyl)oxy)phenyl)-6-(5-(((2-(methylsulfonyl)ethyl)amino)methyl)furan-2-yl)quinazolin-4-amine |  |
| Synonyms  |  |
| GSK572016; GSK-572016; GSK 572016; GW2016; GW-2016; GW 2016; Lapatinib. US brand name: Tykerb.                        |  |
| Chemical structure  | CAS# and Theoretical analysis  |
|                                     | MedKoo Cat#: 100490A<br>Name: Lapatinib (free base)<br>CAS#: 231277-92-2 (free base)<br>Lot#: A21T08K20<br>Chemical Formula: C <sub>29</sub> H <sub>26</sub> ClFN <sub>4</sub> O <sub>4</sub> S<br>Exact Mass: 580.13473<br>Molecular Weight: 581.06 |

| Analysis item      | Specifications / Results   |
|--------------------|--|
| Appearance         | White to off white solid powder  |
| Structure          | <sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC)      | >99.0%   |
| Solubility         | Soluble in DMSO  |
| Conclusion         | This product conforms with MedKoo's quality standards  |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.                      |
| Storage condition  | Short term storage (weeks): 0 – 4 °C under dry condition<br>Long term storage (months): -20 °C under dry condition   |
| Shelf life         | At least 3 years if properly stored.   |

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**