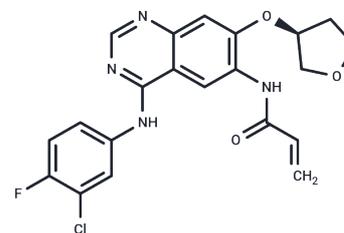


Afatinib impurity 11

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 1402086-20-7 |
| Formula: | C ₂₁ H ₁₈ ClFN ₄ O ₃ |
| Molecular Weight: | 428.85 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|-------------|---|
| Description | Afatinib impurity 11 is an impurity of Afatinib. Afatinib is an irreversible EGFR family inhibitor with IC ₅₀ s of 0.5 nM, 0.4 nM, 10 nM and 14 nM for EGFRwt, EGFR L858R, EGFR L858R/T790M and HER2, respectively[1]. |
|-------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3318 mL | 11.6591 mL | 23.3182 mL |
| 5 mM | 0.4664 mL | 2.3318 mL | 4.6636 mL |
| 10 mM | 0.2332 mL | 1.1659 mL | 2.3318 mL |
| 50 mM | 0.0466 mL | 0.2332 mL | 0.4664 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Li D, et al. BIBW2992, an irreversible EGFR/HER2 inhibitor highly effective in preclinical lung cancer models. *Oncogene*. 2008 Aug 7;27(34):4702-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481