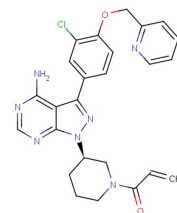


CHMFL-EGFR-202

Chemical Properties

CAS No.: 2089381-40-6
Formula: C₂₅H₂₄ClN₇O₂
Molecular Weight: 489.96
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

| | |
|----------------------------|--|
| Description | CHMFL-EGFR-202 is a potent, irreversible inhibitor of EGFR mutant kinase (IC ₅₀ s: 5.3 nM and 8.3 nM for drug-resistant mutant EGFR T790M and WT EGFR kinases). |
| Targets(IC ₅₀) | EGFR T790M: 5.3 nM EGFR: 8.3 nM ErbB2: 8.1 nM ErbB4: 3.2 nM MEK1: 161 nM Btk: 24.5 nM BLK: 8.1 nM BMX: 111 nM |
| In vitro | CHMFL-EGFR-202 exhibits ~10-fold selectivity for EGFR L858R/T790M against the EGFR wild-type in cells. CHMFL-EGFR-202 potently inhibits EGFR primary mutants (L858R, del19) and drug-resistant mutant L858R/T790M. CHMFL-EGFR-202 displays strong binding affinities against wild-type, L861Q, G719C/S, L858R/T790M, L858R, and T790M among EGFR wild-type and mutant kinases. CHMFL-EGFR-202 also exhibits strong binding affinities against BLK, BMX, BTK, ERBB2, ERBB4, LOK, MEK1, and MEK5 kinases (percent of control score less than 1% at 1 μM). CHMFL-EGFR-202 strongly inhibits BLK, BTK, ERBB2 and ERBB4 (IC ₅₀ s: of 8.1 nM, 24.5 nM, 8.1 nM and 3.2 nM). CHMFL-EGFR-202 moderately inhibits BMX and MEK1 kinases (IC ₅₀ s: 111.0 nM and 161.0 nM). |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|----------|
| 1 mM | 2.041 mL | 10.205 mL | 20.41 mL |
| 5 mM | 0.408 mL | 2.041 mL | 4.082 mL |
| 10 mM | 0.204 mL | 1.02 mL | 2.041 mL |
| 50 mM | 0.041 mL | 0.204 mL | 0.408 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Wang A, et al. Discovery of (R)-1-(3-(4-Amino-3-(3-chloro-4-(pyridin-2-ylmethoxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one (CHMFL-EGFR-202) as a Novel Irreversible EGFR Mutant Kinase Inhibitor with a Distinct Binding Mode.

[Inhibitors](#) · [Natural Compounds](#) · [Compound Libraries](#)

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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