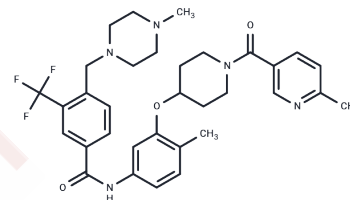


## CHMFL-ABL/KIT-155

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 2081093-21-0  |
| Formula:          | C33H38F3N5O3  |
| Molecular Weight: | 609.68  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | CHMFL-ABL/KIT-155 is a highly potent and orally active type II ABL/c-KIT dual kinase inhibitor (IC50s: 46 nM/75 nM). It arrests cell cycle progression and induces apoptosis.   |
| Targets(IC50) | Apoptosis, Discoidin Domain Receptor (DDR), Bcr-Abl, c-Kit, PDGFR   |
| In vitro      | CHMFL-ABL/KIT-155 also presents significant inhibitory activities to BLK, CSF1R, DDR1, DDR2, LCK and PDGFR $\beta$ (IC50s: 81 nM, 227 nM, 116 nM, 325 nM, 12 nM, and 80 nM) kinases. CHMFL-ABL/KIT-155 exhibits anti-proliferation activities in the BCR-ABL dependent CML cancer cell lines such as MEG-01 (GI50: 0.02 $\mu$ M), K562 (GI50: 0.027 $\mu$ M), and KU812 (GI50: 0.056 $\mu$ M). It also potently inhibits the growth of c-KIT dependent GISTs cancer cell lines including GIST-882 (GI50: 0.095 $\mu$ M), GIST-T1 (GI50: 0.023 $\mu$ M) but not c-KIT independent GIST-48B (GI50: 3.96 $\mu$ M). |
| In vivo       | In female nu/nu mice bearing established K562 tumor xenografts, CHMFL-ABL/KIT-155 (25-100 mg/kg; p.o.; once daily for 28 days) shows dose-dependent tumor progression suppression without apparent toxicity.  |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 1.6402 mL | 8.201 mL  | 16.402 mL |
| 5 mM  | 0.328 mL  | 1.6402 mL | 3.2804 mL |
| 10 mM | 0.164 mL  | 0.8201 mL | 1.6402 mL |
| 50 mM | 0.0328 mL | 0.164 mL  | 0.328 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang Q, et al. Discovery of 4-Methyl-N-(4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)phenyl)-3-((1-nicotinoylpiperidin-4-yl)oxy)benzamide (CHMFL-ABL/KIT-155) as a Novel Highly Potent Type II ABL/KIT Dual Kinase Inhibitor with a Distinct Hinge Binding. J Med Chem. 2017 Jan 12;60(1):273-289.

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