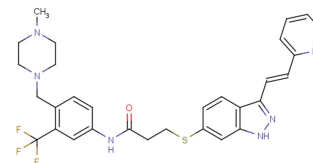


CHMFL-ABL-121

Chemical Properties

CAS No.:	2270879-07-5
Formula:	C30H31F3N6OS
Molecular Weight:	580.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	CHMFL-ABL-121 is a highly potent inhibitor of type II ABL kinase (IC ₅₀ s: 2 nM and 0.2 nM against purified inactive ABL wt and T315I kinase protein).
Targets(IC ₅₀)	ABL wt: 2 nM ABL-T315I: 0.2 nM
In vitro	CHMFL-ABL-121 induces apoptosis and arrests the cell cycle at the G0/G1 phase. CHMFL-ABL-121 dose-dependently inhibits BCRABL's auto-phosphorylation at the Y245 site in MEG-01 (EC ₅₀ <10 nM), K562 (EC ₅₀ <10 nM), and KU812 (EC ₅₀ <30 nM) cells and also significantly blocks the phosphorylation of downstream signaling mediators STAT5, CrkL, and Erk.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.722 mL	8.611 mL	17.221 mL
5 mM	0.344 mL	1.722 mL	3.444 mL
10 mM	0.172 mL	0.861 mL	1.722 mL
50 mM	0.034 mL	0.172 mL	0.344 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. Liu X, et al. Discovery of (E)-N-(4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)phenyl)-3-((3-(2-(pyridin-2-yl)vinyl)-1H-indazol-6-yl)thio)propanamide (CHMFL-ABL-121) as a highly potent ABL kinase inhibitor capable of overcoming a variety of ABL mutants including T315I for chronic myeloid leukemia. Eur J Med Chem. 2018 Dec 5;160:61-81.

Inhibitors · Natural Compounds · Compound Libraries

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