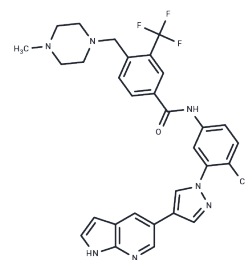


CHMFL-48

Chemical Properties

CAS No. :	2479290-65-6
Formula:	C31H30F3N7O
Molecular Weight:	573.61
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CHMFL-48, an orally active inhibitor of BCR-ABL kinase, demonstrates efficacy against both the wild-type (wt) and various imatinib-resistant mutants. It exhibits potent inhibitory activity, with IC ₅₀ values of 1 nM for the ABL wild-type and 0.8 nM for the ABL T315I mutant. CHMFL-48 operates by inhibiting the autophosphorylation of both wild-type and mutant BCR-ABL, affecting downstream signaling mediators including STAT5 and CRKL. This disruption leads to cell cycle arrest and triggers apoptosis. Given its properties, CHMFL-48 is a promising candidate for research on chronic myeloid leukemia (CML).
Targets(IC ₅₀)	Apoptosis, Bcr-Abl, STAT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7433 mL	8.7167 mL	17.4334 mL
5 mM	0.3487 mL	1.7433 mL	3.4867 mL
10 mM	0.1743 mL	0.8717 mL	1.7433 mL
50 mM	0.0349 mL	0.1743 mL	0.3487 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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