

AI-10-104

Chemical Properties

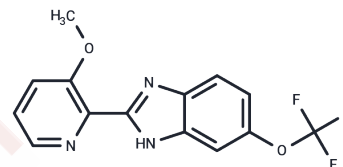
CAS No. : 1881276-00-1

Formula: C₁₄H₁₀F₃N₃O₂

Molecular Weight: 309.24

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	AI-10-104 acts as an inhibitor of the runt-related transcription factor (RUNX), increasing cytotoxic effects in myeloma cells [1].
Targets(IC50)	Others
In vitro	AI-10-104 (0-10 μM) inhibits RUNX by dissociating the RUNXs-IKZFs complex, thereby enhancing the antiproliferative and cytotoxic effects of lenalidomide (CC-5013) on myeloma cells [1]. Western Blot analysis [1], using a concentration of 0-10 μM in HEK293T cells, shows a reduction in IKZF3 and CBFβ levels. Cell proliferation assays [1] conducted on OPM-1, KMS-11, and U266 cell lines at a concentration of 1 μM revealed maintained cell viability with moderate inhibition of OPM-1 cell proliferation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2337 mL	16.1687 mL	32.3373 mL
5 mM	0.6467 mL	3.2337 mL	6.4675 mL
10 mM	0.3234 mL	1.6169 mL	3.2337 mL
50 mM	0.0647 mL	0.3234 mL	0.6467 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

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