

AI-10-47

## Chemical Properties

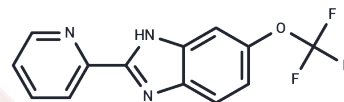
CAS No. : 1256094-31-1

Formula: C<sub>13</sub>H<sub>8</sub>F<sub>3</sub>N<sub>3</sub>O

Molecular Weight: 279.22

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-10-47 (1H-Benzimidazole, 2-(2-pyridinyl)-6-(trifluoromethoxy)-AI-10-47) is a small molecule inhibitor of CBFβ-RUNX binding (IC <sub>50</sub> : 3.2 μM).
Targets(IC <sub>50</sub> )	Others
In vitro	AI-10-47 significantly inhibits ME-1, TUR, M0-91, THP-1 and U937 cell growth; AI-10-47 with 10 μM weakly inhibits CBFβ-RUNX binding.

## Solubility Information

Solubility	DMSO: 100 mg/mL (358.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5814 mL	17.907 mL	35.8141 mL
5 mM	0.7163 mL	3.5814 mL	7.1628 mL
10 mM	0.3581 mL	1.7907 mL	3.5814 mL
50 mM	0.0716 mL	0.3581 mL	0.7163 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

Anuradha Illendula, et al. Small Molecule Inhibitor of CBFβ-RUNX Binding for RUNX Transcription Factor Driven Cancers. EBioMedicine. 2016 Jun;8:117-131.

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