


## Certificate of Analysis

Catalog Number	BP13003
Product Name	AI-10-49

## Physical and Chemical Properties

CAS No.	1256094-72-0
Chemical Formula	C <sub>30</sub> H <sub>22</sub> F <sub>6</sub> N <sub>6</sub> O <sub>5</sub>
Molecular Weight	660.533
Solubility	Ethanol: 93 mg/mL (140.8 mM) H <sub>2</sub> O: <1 mg/mL; DMSO: 93 mg/mL (140.8 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	AI-10-49 is a selective inhibitor of the binding of CBF $\beta$ -SMMHC to RUNX1 with IC <sub>50</sub> of 260 nM.
Targets&IC <sub>50</sub>	CBF $\beta$ -SMMHC:260 nM
In vitro	AI-10-49 displays specific growth inhibition of inv(16)-positive cell line ME-1. AI-10-49 selectively binds to CBF $\beta$ -SMMHC, disrupts its binding to RUNX1, and restores RUNX1 transcriptional activity.

In vivo	In mice transplanted with Cbfb+/MYH11;Nras+/G12D leukemic cells, AI-10-49 (200 mg/kg, i.p.) reduces leukemia expansion.
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## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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