


Certificate of Analysis

Catalog Number	BP10378
Product Name	TAI-1

Physical and Chemical Properties

Synonyms	TAI1, TAI 1
CAS No.	1334921-03-7
Chemical Formula	C ₂₄ H ₂₁ N ₃ O ₃ S
Molecular Weight	431.51
Solubility	DMSO: 80 mg/mL (185.4 mM) Ethanol: <1 mg/mL; H ₂ O: <1 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	TAI-1 is a potent and specific Hec1 inhibitor, which disrupts Hec1-Nek2 protein interaction.
Targets&IC50	in K562 cells: 13.48 nM (GI50)

In vitro	Cells are seeded in 96 well plates, incubated for 24 hours, compounds added and incubated for 96 hours. All testing points are tested in triplicate wells. Cell viability is determined by MTS assay using CellTiter 96 Aqueous Non-radioactive Cell Proliferation Assay system according to manufacturer's instructions with MTS and PMS. Data retrieved from spectrophotometer are processed in Excel and GraphPad Prism 5 to calculate the concentration exhibiting 50% growth inhibition (GI50). All data represent the results of triplicate experiments.(Only for Reference)
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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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v2 Revision on 12/28/2022