NAI-N3

Cat. No.: HY-103006

CAS No.: 1612756-29-2

Molecular Formula: $C_{10}H_8N_6O$

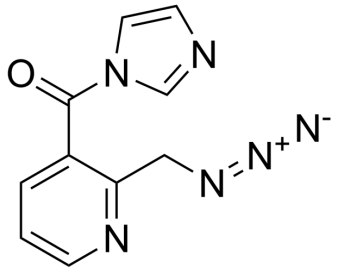
Molecular Weight: 228.21

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (438.19 mM; Need ultrasonic)

H_2O : ≥ 16.67 mg/mL (73.05 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.3819 mL	21.9096 mL	43.8193 mL
5 mM	0.8764 mL	4.3819 mL	8.7639 mL
10 mM	0.4382 mL	2.1910 mL	4.3819 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NAI-N3 is a RNA acylation reagent that enables RNA purification. NAI-N3 is a dual-function SHAPE (selective 2-hydroxyl acylation and profiling experiment) probe (RNA structure probe and enrichment)[1].

In Vitro

Living cells are treated with the icSHAPE (in vivo click selective 2-hydroxyl acylation and profiling experiment) chemical NAI-N3 followed by selective chemical enrichment of NAI-N3-modified RNA, which provides an improved signal-to-noise ratio compared with similar methods leveraging deep sequencing[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Biotechnol. 2023 Apr 10.
- Nucleic Acids Res. 2019 Dec 16;47(22):e145.
- bioRxiv. 2023 Apr 7.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Flynn RA, et al. Transcriptome-wide interrogation of RNA secondary structure in living cells with icSHAPE. Nat Protoc. 2016 Feb;11(2):273-90.

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