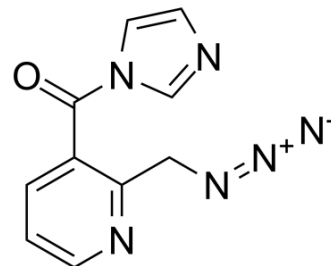


NAI-N3

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-103006 | | |
| CAS No.: | 1612756-29-2 | | |
| Molecular Formula: | C ₁₀ H ₈ N ₆ O | | |
| Molecular Weight: | 228.21 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Pure form | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 115 mg/mL (503.92 mM)
 * "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 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

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (10.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (10.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (10.95 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

- Nucleic Acids Res. 2019 Dec 16;47(22):e145.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA