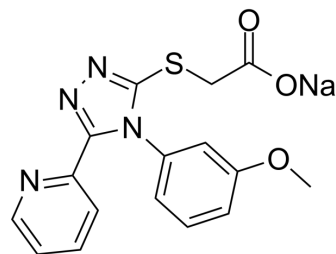


GJ103 sodium

| | |
|--------------------|--|
| Cat. No.: | HY-101203A |
| CAS No.: | 1459687-96-7 |
| Molecular Formula: | C ₁₆ H ₁₃ N ₄ NaO ₃ S |
| Molecular Weight: | 364.35 |
| Target: | Others |
| 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 : 50 mg/mL (137.23 mM; Need ultrasonic)
 H₂O : ≥ 10 mg/mL (27.45 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 2.7446 mL | 13.7231 mL | 27.4461 mL |
| | 5 mM | 0.5489 mL | 2.7446 mL | 5.4892 mL |
| | 10 mM | 0.2745 mL | 1.3723 mL | 2.7446 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 (6.86 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GJ103 sodium is a read-through compound that can induce read through of premature stop codons. GJ103 sodium has potential for the research of genetic disorders caused by nonsense mutations^[1].

In Vitro

GJ103 (10-30 μM; 4 days) sodium induces ATM kinase activity in AT153LA cells with a homozygous TGA mutation and a homozygous TAA mutation^[1].
 GJ103 sodium does not show obvious cytotoxicity in A-T cells at concentration as high as 300 μM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Du L, et al. A new series of small molecular weight compounds induce read through of all three types of nonsense mutations in the ATM gene. Mol Ther. 2013 Sep;21(9):1653-60.

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

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