

Diethylamine NONOate diethylammonium salt

Chemical Properties

CAS No. : 372965-00-9

Formula: C₈H₂₂N₄O₂

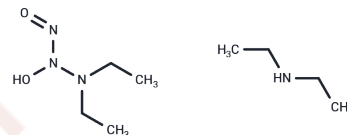
Molecular Weight: 206.29

Storage:

Keep away from moisture, Store at low temperature,
Store under nitrogen, The compound is unstable in
solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Diethylamine NONOate diethylammonium salt (DEA NONOate diethylamine) is a nitric oxide donor with antibacterial activity, a dispersant for preformed biofilms of <i>Pseudomonas aeruginosa</i> and inhibits the growth of <i>E. coli</i> . Diethylamine NONOate diethylammonium salt can be used for the preservation of isolated rat hearts. |
| Targets(IC50) | Antibacterial, Antibiotic |

Solubility Information

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|------------|--|
| Solubility | <p>H₂O: 80 mg/mL (387.8 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.)</p> <p>DMSO: 50 mg/mL (242.38 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.)</p> <p>(< 1 mg/ml refers to the product slightly soluble or insoluble)</p> |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.8475 mL | 24.2377 mL | 48.4754 mL |
| 5 mM | 0.9695 mL | 4.8475 mL | 9.6951 mL |
| 10 mM | 0.4848 mL | 2.4238 mL | 4.8475 mL |
| 50 mM | 0.097 mL | 0.4848 mL | 0.9695 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Du ZY, et al. The nitric oxide donor, diethylamine NONOate, enhances preservation of the donor rat heart. J Heart Lung Transplant. 1998 Nov;17(11):1113-20.

Li R, Li Y, Jiang K, et al. Lighting up arginine metabolism reveals its functional diversity in physiology and pathology. Cell Metabolism. 2024

Sysel AM, et al. Antimicrobial properties of diethylamine NONOate, a nitric oxide donor, against Escherichia coli: a pilot study. J Antibiot (Tokyo). 2021 Apr;74(4):260-265.

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