

Formamide

Chemical Properties

CAS No. : 75-12-7

Formula: CH₃NO

Molecular Weight: 45.0406

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Formamide (NSC-748) is a metabolite used for biological monitoring of workers exposed to N-N-dimethylformamide (DMF). There is a case of significant association between ever having been exposed to DMF and subsequent development of prostate cancer. |
| Targets(IC50) | Apoptosis,Endogenous Metabolite |

Solubility Information

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|------------|--|
| Solubility | DMSO: 255 mg/mL (5661.56 mM), Ethanol: Soluble, H ₂ O: 20 mg/mL (444.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|-------------|-------------|
| 1 mM | 22.2025 mL | 111.0124 mL | 222.0249 mL |
| 5 mM | 4.4405 mL | 22.2025 mL | 44.405 mL |
| 10 mM | 2.2202 mL | 11.1012 mL | 22.2025 mL |
| 50 mM | 0.444 mL | 2.2202 mL | 4.4405 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

- Lareo A C , Perbellini L . Biological monitoring of workers exposed to N-N-dimethylformamide. II. Dimethylformamide and its metabolites in urine of exposed workers[J]. Int Arch Occup Environ Health, 1995, 67(1): 47-52.
- Walrath J , Fayerweather W E , Gilby P G , et al. A case-control study of cancer among DuPont employees with potential for exposure to dimethylformamide[J]. J Occup Med, 1989, 31(5):432-438.

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