

Xanthosine

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 146-80-5 |
| Formula: | C10H12N4O6 |
| Molecular Weight: | 284.226 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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|---------------|---|
| Description | Xanthosine (9-Beta-D-Ribofuranosylxanthine) is a xanthine nucleoside that increases the number of mammary stem cells and milk production in goats and cattle. |
| Targets(IC50) | Endogenous Metabolite |

Solubility Information

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|------------|---|
| Solubility | DMSO: 60.00 mg/mL (211.10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.5183 mL | 17.5914 mL | 35.1828 mL |
| 5 mM | 0.7037 mL | 3.5183 mL | 7.0366 mL |
| 10 mM | 0.3518 mL | 1.7591 mL | 3.5183 mL |
| 50 mM | 0.0704 mL | 0.3518 mL | 0.7037 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

Magasanik, B, et al.: J. Bio. Chem., 206, 83 (1954)

Chen J, Li T, Huang D, et al.Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism.Journal of Pharmaceutical Analysis.2023

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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