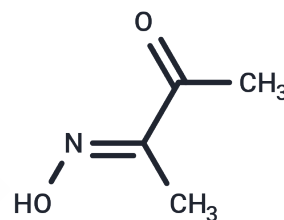


2,3-Butanedione 2-Monoxime

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 57-71-6 |
| Formula: | C ₄ H ₇ NO ₂ |
| Molecular Weight: | 101.1 |
| Storage: | Store under nitrogen 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

| | |
|---------------|--|
| Description | 2,3-Butanedione 2-Monoxime (Diacetyl monoxime) is an inhibitor of skeletal and cardiac muscle contraction. |
| Targets(IC50) | ATPase,Akt,Myosin |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 50 mg/mL (494.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (19.78 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 9.8912 mL | 49.456 mL | 98.912 mL |
| 5 mM | 1.9782 mL | 9.8912 mL | 19.7824 mL |
| 10 mM | 0.9891 mL | 4.9456 mL | 9.8912 mL |
| 50 mM | 0.1978 mL | 0.9891 mL | 1.9782 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

Vyomesh Patel, et al. Y Res, 2002, 62(5), 1401-1409

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