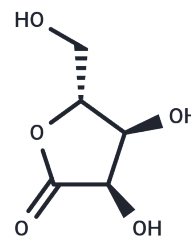


D-Ribonolactone

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 5336-08-3 |
| Formula: | C ₅ H ₈ O ₅ |
| Molecular Weight: | 148.11 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|---|
| Description | D-Ribonolactone is a sugar lactone and an inhibitor of β -galactosidase in Escherichia coli (K _i : 26 mM). |
| Targets(IC50) | Endogenous Metabolite,Antibacterial |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (1687.93 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: 5 mg/mL (33.76 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 | 6.7517 mL | 33.7587 mL | 67.5174 mL |
| 5 mM | 1.3503 mL | 6.7517 mL | 13.5035 mL |
| 10 mM | 0.6752 mL | 3.3759 mL | 6.7517 mL |
| 50 mM | 0.135 mL | 0.6752 mL | 1.3503 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

Huber RE, et al. Strong inhibitory effect of furanoses and sugar lactones on beta-galactosidase Escherichia coli. Biochemistry. 1987 Mar 24;26(6):1526-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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