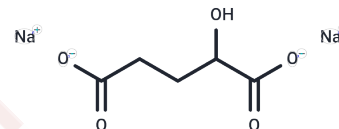


DL- $\alpha$ -Hydroxyglutaric acid disodium salt

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 40951-21-1  |
| Formula:          | C <sub>5</sub> H <sub>6</sub> Na <sub>2</sub> O <sub>5</sub>  |
| Molecular Weight: | 192.08  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | DL-alpha-Hydroxyglutaric acid disodium salt is an alpha-ketoglutarate ( $\alpha$ -KG) antagonist that inhibits a variety of $\alpha$ -KG-dependent dioxygenases. |
| Targets(IC50) | Histone Demethylase,Others,Endogenous Metabolite   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | H <sub>2</sub> O: 260 mg/mL (1353.6 mM)<br>DMSO: < 1.92 mg/mL (10 mM, insoluble or slightly soluble)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.2062 mL | 26.0308 mL | 52.0616 mL |
| 5 mM  | 1.0412 mL | 5.2062 mL  | 10.4123 mL |
| 10 mM | 0.5206 mL | 2.6031 mL  | 5.2062 mL  |
| 50 mM | 0.1041 mL | 0.5206 mL  | 1.0412 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

Kranendijk M, Struys E A, Schaftingen E V, et al. IDH2 mutations in patients with D-2-hydroxyglutaric aciduria.[J]. Science, 2010, 330(6002):336-336.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481