

Certificate of Analysis

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Product Name: (RS)-2-Hydroxyglutaric acid disodium salt

Catalog No.: 6122

Batch No.: 1

CAS Number: 40951-21-1

IUPAC Name: (RS)-2-Hydroxypentanedioic acid disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₆Na₂O₅·¼H₂O

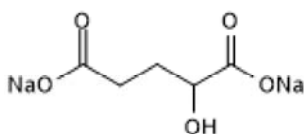
Batch Molecular Weight: 196.58

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	30.55	3.33	
Found	30.5	3.06	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 40951-21-1

IUPAC Name: (RS)-2-Hydroxypentanedioic acid disodium salt

Description:

(RS)-2-Hydroxyglutaric acid disodium salt is an oncometabolite with R- and S- enantiomers overproduced in the neurometabolic disease 2-hydroxyglutaric aciduria (2-HGA).

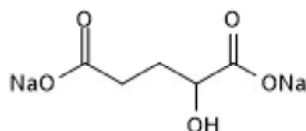
Physical and Chemical Properties:

Batch Molecular Formula: C₅H₆Na₂O₅·¼H₂O

Batch Molecular Weight: 196.58

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Du X. and Hu H. (2021) The roles of 2-Hydroxyglutarate. *Front.Cell Dev.Biol.* **9** 651317. PMID: 33842477.

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