

Product Data Sheet

Product Name: Sodium 1-hydroxypropane-1,2,3-tricarboxylate hydrate

Cat. No.: GC38327

Chemical Properties

Cas. No. 1637-73-6

SMILES OC(C(O)=O)C(C(O)=O)CC(O)=O.[Na].[Na].[Na]

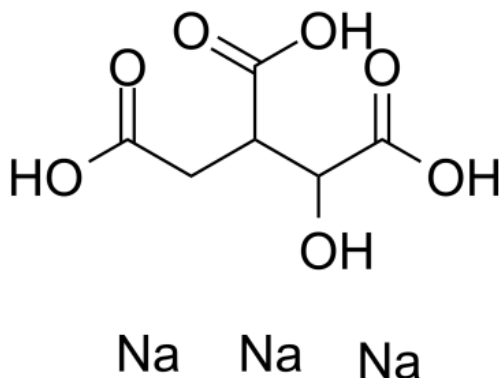
Formula $C_6H_5Na_3O_7$ M.Wt 258.07

Solubility Water : 50 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Sodium 1-hydroxypropane-1,2,3-tricarboxylate hydrate is a key intermediate in the tricarboxylic acid (TCA) cycle, serving as a reaction substrate for determining the activity of isocitrate dehydrogenase^[1]. Sodium 1-hydroxypropane-1,2,3-tricarboxylate hydrate is also commonly used as a diagnostic biomarker for various cancers^[2].

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1] Herold RA, Reinbold R, Schofield CJ, et al. NADP(H)-dependent biocatalysis without adding NADP(H). *Proc Natl Acad Sci U S A*. 2023 Jan 3;120(1):e2214123120.
- [2] Yang Q, Sun Q, Zhang Y, et al. A multi-stage metabolic pattern of adrenocortical adenomas offers diagnostic potential of uric acid, isocitric acid, and proline. *Metabolomics*. 2025 Jun 22;21(4):89.

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