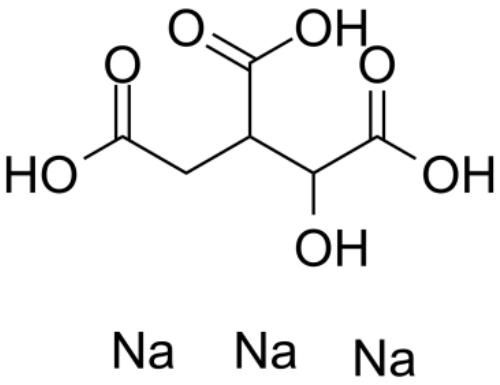
Product Data Sheet

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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