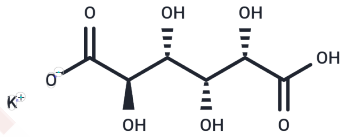
Data Sheet (Cat.No.T4916)

TargetMol

D-Glucaric acid potassium

Chemical Properties



CAS No. :	576-42-1
Formula:	C6H9KO8
Molecular Weight:	248.23
Storage:	Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	D-Glucaric acid potassium (D-Saccharic acid potassium salt) is a compound formed from oxidizing sugars, which can be used to test for the presence of hepatic enzyme induction. Studies indicate that D-glucuronolactone dehydrogenase oxidizes D-Saccharic acid potassium salt into D-glucaro-l,4;6,3-dilactone. Alternate studies suggest that D-Saccharic acid potassium salt forms a complex with Cu(II) and H2O2to decolorize azo, acridine, triphenyl methane, anthraquinone and thiazine-based dyes.
Targets(IC50)	Apoptosis,Endogenous Metabolite

Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0285 mL	20.1426 mL	40.2852 mL
5 mM	0.8057 mL	4.0285 mL	8.057 mL
10 mM	0.4029 mL	2.0143 mL	4.0285 mL
50 mM	0.0806 mL	0.4029 mL	0.8057 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

Aarts E M. D-glucaric-acid excretion as a test for hepatic enzyme induction.[J]. Lancet, 1971, 298(7714):47-47.
Verma P , Shah V , Baldrian P , et al. Decolorization of synthetic dyes using a copper complex with glucaric acid[J]. Chemosphere, 2004, 54(3):0-295.
Zółtaszek R, Hanausek M , Kiliańska ZM, et al. [The biological role of D-glucaric acid and its derivatives: potential use in medicine].[J]. Postpy Higieny I Medycyny Doświadczalnej, 2008, 62(1):451.

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