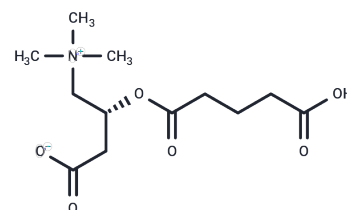


Glutarylcarnitine

Chemical Properties

CAS No. : 102636-82-8
 Formula: C₁₂H₂₁NO₆
 Molecular Weight: 275.3
 Appearance: no data available
 Storage: store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Glutarylcarnitine (O-glutaroyl-L-carnitine) is a diagnostic metabolite for malonic aciduria and glutaric aciduria type I monitored in most tandem mass spectrometry newborn screening programmes.
Targets(IC50)	Endogenous Metabolite
In vitro	The concentration of Glutarylcarnitine dropped to 60% within 42 days, averaging 56%±5% over the next 124 days. The results indicate good stability of Glutarylcarnitine in blood spots stored at room temperature[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6324 mL	18.162 mL	36.324 mL
5 mM	0.7265 mL	3.6324 mL	7.2648 mL
10 mM	0.3632 mL	1.8162 mL	3.6324 mL
50 mM	0.0726 mL	0.3632 mL	0.7265 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.

Reference

Johnson DW, et al. Stability of malonylcarnitine and Glutarylcarnitine in stored blood spots. J Inherit Metab Dis. 2004;27(6):789-90.

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