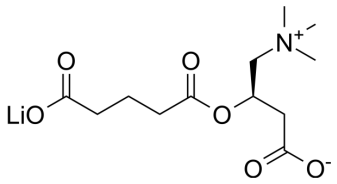
Glutarylcarnitine lithium

Cat. No.:	HY-113005A
Molecular Formula:	$C_{12}H_{20}LiNO_6$
Molecular Weight:	281.23
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Glutarylcarnitine lithium is the diagnostic metabolite for malonic aciduria and glutaric aciduria type I monitored in most tandem mass spectrometry newborn screening programmes[1].
IC_{50} & Target	Human Endogenous Metabolite
In Vitro	Malonylcarnitine and Glutarylcarnitine are important diagnostic metabolites in the screening of dried blood spots by tandem mass spectrometry[1]. The urinary excretion of glutarylcarnitine is a specific biochemical marker of glutaric acidemia type I (GA-1). The urinary excretion of glutarylcarnitine is an informative tool in the biochemical diagnosis of glutaric acidemia type I[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. S Tortorelli, et al. The urinary excretion of glutarylcarnitine is an informative tool in the biochemical diagnosis of glutaric acidemia type I. Mol Genet Metab. 2005 Feb;84(2):137-43.

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