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**Product Data Sheet**

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Product Name: Glutarylcarnitine

Cat. No.: GC31609

**Chemical Properties**

Cas. No. 102636-82-8

SMILES C[N+](C)(C)C[C@H](OC(CCCC([O-])=O)=O)CC(O)=OFormula  $C_{12}H_{21}NO_6$ 

M.Wt 275.3

Solubility Ethanol : 100 mg/mL (363.24 mM; Need ultrasonic); DMSO : 2 mg/mL (7.26 mM; ultrasonic and warming and heat to 60°C) 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**

Glutarylcarnitine is the diagnostic metabolite for malonic aciduria and glutaric aciduria type I monitored in most tandem mass spectrometry newborn screening programmes.

Malonylcarnitine and Glutarylcarnitine are important diagnostic metabolites in the screening of dried blood spots by tandem mass spectrometry[1].

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

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

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