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**Product Data Sheet**

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Product Name: N-Isovaleroylglycine

Cat. No.: GC31605

**Chemical Properties**

Cas. No. 16284-60-9

SMILES O=C(O)CNC(CC(C)C)=OFormula  $C_7H_{13}NO_3$ 

M.Wt 159.18

Solubility DMSO: 5 mg/ml, Methanol: 1 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**

Isovaleroylglycine is a compound found in the urine of patients with isovaleric acidemia, a disorder created by defective leucine metabolism due to a deficiency in the isovaleryl coenzyme A dehydrogenase.<sup>1</sup> It has been used as a diagnostic tool in the diagnosis of various acidemias and mitochondrial fatty acid  $\beta$ -oxidation defects.

1. Tanaka, K., and Isselbacher, K.J. The isolation and identification of N-isovalerylglycine from urine of patients with isovaleric acidemia. *J. Biol. Chem.* 242(12):2966-2972 (1967)

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

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