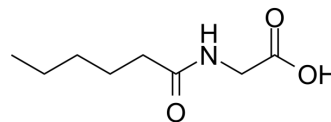


Hexanoylglycine

Cat. No.:	HY-113150
CAS No.:	24003-67-6
Molecular Formula:	C ₈ H ₁₅ NO ₃
Molecular Weight:	173.21
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (577.33 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.7733 mL	28.8667 mL	57.7334 mL
		5 mM	1.1547 mL	5.7733 mL	11.5467 mL
		10 mM	0.5773 mL	2.8867 mL	5.7733 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.43 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.43 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.43 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Hexanoylglycine is an endogenous metabolite present in Urine that can be used for the research of Ethylmalonic Encephalopathy ^{[1][2]} .
In Vitro	Endogenous metabolites is defined as those that are annotated by Kyoto Encyclopedia of Genes and Genomes as substrates or products of the ~1900 metabolic enzymes encoded in our genome. It is clear in the body of literature that there are documented toxic properties for many of these metabolites ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Nowaczyk MJ, et al. Ethylmalonic and methylsuccinic aciduria in ethylmalonic encephalopathy arise from abnormal isoleucine metabolism. *Metabolism*. 1998 Jul;47(7):836-9.
- [2]. Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. *Oncogene*. 2020 Aug;39(35):5709-5720.
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Caution: Product has not been fully validated for medical applications. For research use only.

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