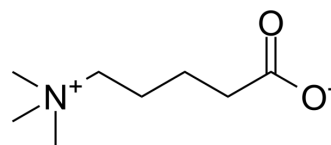


delta-Valerobetaine

Cat. No.:	HY-114202		
CAS No.:	6778-33-2		
Molecular Formula:	C ₈ H ₁₇ NO ₂		
Molecular Weight:	159.23		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (785.03 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.2802 mL	31.4011 mL	62.8022 mL
		5 mM	1.2560 mL	6.2802 mL	12.5604 mL
10 mM		0.6280 mL	3.1401 mL	6.2802 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (628.02 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	delta-Valerobetaine is a precursor of trimethylamine N-oxide (TMAO).
In Vitro	<p>The levels of delta-valerobetaine were by far higher in ruminant than in non-ruminant meat and, among ruminants, cattle present higher levels of the substance than sheep and goat. The levels of delta-valerobetaine in milk of ruminants are much lower than in their meat. However, delta-valerobetaine content in milk of ruminants is noticeably higher than that observed in non-ruminant milk. It is showed that incubation of ruminal fluid with labeled N^ε-trimethyllysine leads to a rapid formation of labeled delta-valerobetaine^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Servillo L, et al. Ruminant meat and milk contain δ -valerobetaine, another precursor of trimethylamine N-oxide (TMAO) like γ -butyrobetaine. Food Chem. 2018 Sep 15;260:193-199.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA