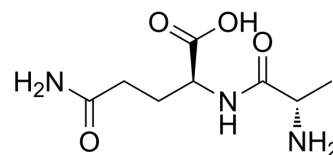


L-Alanyl-L-glutamine

Cat. No.:	HY-W014102
CAS No.:	39537-23-0
Molecular Formula:	C ₈ H ₁₅ N ₃ O ₄
Molecular Weight:	217.22
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	H ₂ O : 50 mg/mL (230.18 mM; Need ultrasonic)						
	DMSO : < 1 mg/mL (insoluble or slightly soluble)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.6036 mL	23.0181 mL	46.0363 mL
				5 mM	0.9207 mL	4.6036 mL	9.2073 mL
10 mM				0.4604 mL	2.3018 mL	4.6036 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 (460.36 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	L-Alanyl-L-glutamine, a glutamine dipeptide, is benefit for the antioxidant system, attenuating inflammation, and may modulate the heat shock protein (HSP) response in catabolic situations ^[1] .
In Vitro	L-Alanyl-L-glutamine (2 mM; 24 hours) partially or fully attenuates chronic insulin secretion, and IR-β and COX IV levels which are decreased when β-cells were exposed to macrophages following stimulation in vitro (IMMs) ^[1] . L-Alanyl-L-glutamine -dependent β-cell protection mediated by coordinated effects on the glutamine-GSH axis, and the HSP pathway, maintenance of mitochondrial metabolism and stimulus-secretion coupling essential for insulin release ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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