

Calcineurin autoinhibitory peptide

Cat. No.:	HY-P1247	
CAS No.:	148067-21-4	
Molecular Formula:	C ₁₂₄ H ₂₀₅ N ₃₉ O ₃₉ S ₂	
Molecular Weight:	2930.32	ITSFEEAKGLDRINERMPPRRDAMP
Sequence Shortening:	ITSFEEAKGLDRINERMPPRRDAMP	
Target:	Phosphatase	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (34.13 mM); Need ultrasonic					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.3413 mL	1.7063 mL	3.4126 mL
		5 mM		0.0683 mL	0.3413 mL	0.6825 mL
	10 mM		0.0341 mL	0.1706 mL	0.3413 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 (34.13 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Calcineurin autoinhibitory peptide is a selective inhibitor of Ca ²⁺ /calmodulin-dependent protein phosphatase (calcineurin), with an IC ₅₀ of ~10 μM. Calcineurin autoinhibitory peptide could protect neurons from excitatory neuronal death ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : ~10 μM (calcineurin) ^[1]

REFERENCES

[1]. Hashimoto Y, et, al. Identification of an autoinhibitory domain in calcineurin. J Biol Chem. 1990 Feb 5; 265(4): 1924-7.

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