

ACTH (1-14) (TFA)

Cat. No.:	HY-P1582A	
Molecular Formula:	C ₇₉ H ₁₁₀ F ₃ N ₂₁ O ₂₂ S	
Molecular Weight:	1794.9	
Sequence:	Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly	SYSMEHFRWGGKPVG (TFA salt)
Sequence Shortening:	SYSMEHFRWGGKPVG	
Target:	Adrenergic Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
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 (55.71 mM); Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
	Preparing Stock Solutions	1 mM		0.5571 mL	2.7857 mL	5.5713 mL
		5 mM		0.1114 mL	0.5571 mL	1.1143 mL
10 mM			0.0557 mL	0.2786 mL	0.5571 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (13.93 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	ACTH (1-14) (TFA) is a fragment of adrenocorticotrophin, which regulates cortisol and androgen production ^[1] .
In Vitro	Adrenocorticotrophic hormone (ACTH) is a tropic hormone produced by the anterior pituitary, regulates cortisol and androgen production and is associated with Addison disease, Cushing syndrome and Cushing disease ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mulabegović N, et al. Pharmacodynamic properties of a combination of met-enkephalin and alpha 1-13 adrenocorticotrophic hormone. Med Arh. 2008;62(1):41-4.

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

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