Product Data Sheet

Adrenocorticotropic Hormone (ACTH) (1-10), human

Cat. No.:	HY-P1518		
CAS No.:	2791-05-1		
Molecular Formula:	C ₅₅ H ₇₈ N ₁₆ O ₁₆ S	HN _V NH ₂	
Molecular Weight:	1299.41		
Sequence:	Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly		
Sequence Shortening:	SYSMEHFRWG		
Target:	Others		
Pathway:	Others		
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)		

SOLVENT & SOLUBILITY

MedChemExpress

In Vitro	0, (DMSO : 250 mg/mL (192.40 mM; Need ultrasonic) H ₂ O : 2 mg/mL (1.54 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	0.7696 mL	3.8479 mL	7.6958 mL		
		5 mM	0.1539 mL	0.7696 mL	1.5392 mL		
		10 mM	0.0770 mL	0.3848 mL	0.7696 mL		
	Please refer to the sol	lubility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (1.60 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (1.60 mM); Clear solution					
		one by one: 10% DMSO >> 90% corn ng/mL (1.60 mM); Clear solution	n oil				

BIOLOGICAL ACTIVITY

Description

Adrenocorticotropic Hormone (ACTH) (1-10), human, an adrenocorticotropin hormone fragment, possesses a weak α -melanocyte stimulating hormone (α -MSH) potency only at high doses (100 and 1000 nM).

In Vitro

 α -melanocyte stimulating hormone (MSH) induces the differentiation of mouse epidermal melanocytes in vivo and in vitro. Adrenocorticotropic hormone (ACTH) possesses the same amino acid sequence as MSH does^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hirobe T, et al. ACTH(4-12) is the minimal message sequence required to induce the differentiation of mouse epidermal melanocytes in serum-free primary culture. J Exp Zool. 2000 May 1;286(6):632-40.

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

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