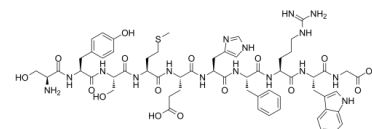


Data Sheet

Product Name:	Adrenocorticotrophic Hormone (ACTH) (1-10), human
Cat. No.:	CS-0044637
CAS No.:	2791-05-1
Molecular Formula:	C59H78N16O16S
Molecular Weight:	1299.41
Target:	Others
Pathway:	Others
Solubility:	H2O : 1 mg/mL (0.77 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Adrenocorticotrophic 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. Adrenocorticotrophic hormone (ACTH) possesses the same amino acid sequence as MSH does^[1].

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.

CAIndexNames:

Glycine, L-seryl-L-tyrosyl-L-seryl-L-methionyl-L- α -glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophyl-

SMILES:

O=C(N[C@@H](CC1=CC=C(C=C1)O)C(N[C@@H](CO)C(N[C@@H](CCSC)C(N[C@@H](CCC(O)=O)C(N[C@@H](CC2=CNC=N2)C(N[C@@H](CC3=CC=CC=C3)C(N[C@@H](CCCNC(N)=N)C(N[C@@H](CC4=CNC5=CC=CC=C45)C(NCC(O)=O)=O)=O)=O)=O)=O)=O)[C@@H](CO)N

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

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