

ACTH (4-11)

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| Cat. No.: | HY-P1503 |
| CAS No.: | 67224-41-3 |
| Molecular Formula: | C ₅₀ H ₇₁ N ₁₅ O ₁₁ S |
| Molecular Weight: | 1090.26 |
| Sequence: | Met-Glu-His-Phe-Arg-Trp-Gly-Lys |
| Sequence Shortening: | MEHFRWGK |
| 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)

BIOLOGICAL ACTIVITY

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| Description | ACTH (4-11), 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. Adrenocorticotropin hormone (ACTH) possesses the same amino acid sequence as MSH does. α -MSH induces the differentiation of mouse epidermal melanocytes in vivo and in vitro. ACTH (4-11) loses almost all activity for the binding to melanocortin receptor 1 (MC1R) ^[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.

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