

## Product Information

**Product ID** A0967

**CAS No.** 7266-47-9

**Chemical Name**

**Synonym** ACTH

**Formula**  $C_{22}H_{34}N_{12}O_{23}S$

**Formula Wt.** 2093.45

**Melting Point**

**Purity**  $\geq 95\%$

**Solubility** Soluble in water.

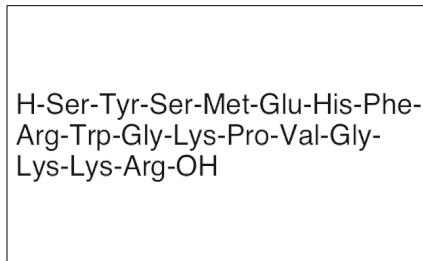
**Store Temp**  $-20^{\circ}C$

**Ship Temp** Ambient

**Description** Adrenocorticotrophic hormone (ACTH) is a peptide derived from proopiomelanocortin (POMC) processed and secreted in the pituitary gland. ACTH binds and activates melanocortin-2 (MC2) receptors, stimulating cortisol production in the adrenal cortex. ACTH exhibits anti-inflammatory and immunomodulatory activities. ACTH decreases inflammatory cytokine levels and modulates lymphocyte and macrophage functions. In vitro, ACTH stimulates proliferation of osteoblasts and increases mRNA levels of collagen I.

**References** Berkovich R, Agius MA. Mechanisms of action of ACTH in the management of relapsing forms of multiple sclerosis. Ther Adv Neurol Disord. 2014 Mar;7(2):83-96. PMID: 24587825.

Isales CM, Zaidi M, Blair HC. ACTH is a novel regulator of bone mass. Ann N Y Acad Sci. 2010 Mar;1192:110-6. PMID: 20392225.



**Bulk quantities available upon request**

Product ID	Size
A0967	0.5 mg
A0967	1 mg
A0967	2.5 mg

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.