
Product Data Sheet

Product Name: Adrenocorticotrophic Hormone (ACTH) (18-39), human (CLIP (human))
 Cat. No.: GC33788

Chemical Properties

Cas. No. 53917-42-3

SMILES Arg-Pro-Val-Lys-Val-Tyr-Pro-Asn-Gly-Ala-Glu-Asp-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe

Formula $C_{112}H_{165}N_{27}O_{36}$

M.Wt 2465.67

Solubility DMF: 2.5mg/mL, DMSO: 5mg/mL, PBS (pH 7.2):
5mg/mL

Storage Store at -
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Adrenocorticotrophic hormone (ACTH) (18-39) is a C-terminal peptide fragment of ACTH, a peptide hormone found in the brain that is involved in the biological stress response.¹ It is produced *via* processing of ACTH in the intermediate lobe of the pituitary gland.^{1,2} ACTH (18-39) increases cumulative food intake in fasted, but not fed, rats when administered intracerebroventricularly at a dose of 2.5 nmol/animal.²

1. Strand, F.L., Lee, S.J., Zuccarelli, L.A., et al. Non-corticotrophic ACTH peptides modulate nerve development and regeneration *Rev. Neurosci.* 4(4)321-363(1993)
 2. Al-Barazanji, K.A., Miller, J.E., Rice, S.Q.J., et al. C-terminal fragments of ACTH stimulate feeding in fasted rats *Horm. Metab. Res.* 33(8)480-485(2001)

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

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