

Recombinant Mouse ACTH Protein (His Tag)

Catalog Number: PDEM100257

Note: Centrifuge before opening to ensure complete recovery of vial contents.

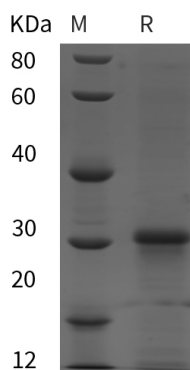
Description

Species	Mouse
Source	E.coli-derived Mouse ACTH protein Trp27-Gln235, with an N-terminal His
Calculated MW	22.9 kDa
Observed MW	30 kDa
Accession	P01193
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse ACTH proteins, 2 µg/lane of Recombinant Mouse ACTH proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 30 kDa.

Background

Adrenocorticotrophic hormone (ACTH)/corticotropin is a 39 amino acid peptide generated by cleavage of the POMC, a preprotein which also can also be cleaved to produce MSH, Beta-endorphin and Met-enkephalin, depending on tissue expression and context. ACTH is a ligand for the ACTH receptor, also known as melanocortin receptor 2. ACTH is secreted by the anterior pituitary gland upon stimulation by corticotropin-releasing hormone (CRH) which is secreted by the hypothalamus. The principal effect of ACTH is production of cortisol by the adrenal gland but it also mediates bone formation and osteoblast survival. ACTH has been shown to induce insulin resistance in adipocytes and promote pro-inflammatory adipokine secretion.

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