

32-1011: Acrp30 Recombinant Protein

Alternative Name : Acrp30,AdipoQ,GBP-28,APM-1,ACDC.

Description

Source : Escherichia Coli. The Adiponectin Human recombinant protein is a single, non-glycosylated polypeptide chain produced in E. coli, having a molecular weight of 25.1 kDa and containing 231 amino acids (15-244). The adipose tissue exclusively expresses and secretes Adiponectin (Acrp30). Acrp30 is involved in various physiological processes such as energy homeostasis, insulin sensitivity, hormonal processes, fatty acid metabolism and obesity. Adiponectin circulates in the plasma. Decreased levels of Adiponectin are associated with insulin resistance and hyperinsulinemia, as seen in people with obesity insulin resistance, and diabetes type 2, whose plasma levels of adiponectin are reduced. The modular structure of Acrp30 is comprised of N-terminal collagenous domain followed by a C-terminal globular domain. Acrp30 also acts as a significant negative regulator in hematopoiesis and immune systems; it may be involved in ending inflammatory responses through its inhibitory functions. Adiponectin inhibits endothelial NF-kappa-b signaling through a cAMP-dependent pathway, it also inhibits TNF-alpha- induced expression of endothelial adhesion molecules.

Product Info

Amount :	25 µg
Purification :	Acrp30 is greater than 90% as determined by SDS-PAGE.
Content :	Acrp30 protein solution contains Phosphate buffered saline pH 7.4 and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGHDQETTTQGGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGTGPGEKGEKGDPLIGPKGDIGETG VPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLETYVTIPNMPPIRFTKIFYNQQNHYDGSTGKFCNIPGLYY FAYHITVYMKDVKVSFLFKDKAMLFTYDQYQENNVQASGSVLLHLEVGQVWLQVYGEGERNGLYADNDN DSTFTGFLLYHDTN.