
Product Data Sheet

Product Name: Acrp30 Protein
Cat. No.: GP20013
Batch No.: 1

Product Data

Purity >98% Source
Physical Appearance solid Shipping Condition

Synonyms Acrp30; AdipoQ; GBP-28; APM-1; ACDC.

Amino Acid Sequence MGHDQETTTQGPVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGTGPEKGEKGDPLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAY

Formulation Acrp30 protein solution contains Phosphate buffered saline pH 7.4 and 1mM DTT.

Introduction

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.

Stability

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 storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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).

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

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