



Product Datasheet

Product Name	Adiponectin Human Recombinant
Cata No	CB500182
Source	<i>Escherichia Coli</i> .
Synonyms	Acrp30, AdipoQ, GBP-28, APM-1, ACDC.

Description

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.

The Acrp30 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.

Purity

Acrp30 purity is greater than 90% as determined by SDS-PAGE.

Formulation

Acrp30 is liquid 1mg/ml in PBS, pH 7.4 containing 1 mM DTT.

Sequence

MGHDQETTTQGPGVLLPLPKGACTGWMAGIPGH
PGHNGAPGRDGRDGTPE
KGEKGDPLIGPKGDIGETGVPGAEGPRGFPGIQ
GRKGEPGEGAYVYRSAFSV
GLETYVTIPNMPPIRFTKIFYNQNNHYDGSTGKFKHC
NIPGLYYFAYHITVYMKD
VKVSLFKKDKAMLFTYDQYQENNVQASGSVLLH
LEVGDQVWLQVYGE
RNGLYADNDNDSTFTGFLLYHDTN