
Product Data Sheet

Product Name: Acrp30 Human, HEK
 Cat. No.: GP20016
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 (Human Embryonic Kidney cell line).
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Acrp30; AdipoQ; GBP-28; APM-1; ACDC.		
Amino Acid Sequence	ETTTQGGPVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHIVYMK DVKVSFLFKD KAMLFTYDQY QENNVDQASG SVLLHLEVGD QVWLQVYGEK ERNGLYADND NDSTFTGFLY YHDTNDYKDDDDK.		
Solubility	Add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product not sterile! Please filter the product by an appropriate sterile filter before using it in cell culture.		
Formulation	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 50mM phosphate Buffer, 75mM NaCl, pH 7.4.		

Introduction

Adiponectin is a recently discovered 244 amino acid protein, the product of the apM1 gene, which is physiologically active and specifically and highly expressed in adipose cells (Adipokine). The protein belongs to the soluble defense collagen super family; it has a collagen-like domain structurally homologous with collagen VIII and X and complement factor C1q-like globular domain. APM-1 forms homotrimers, which are the building blocks for higher order complexes found circulating in serum.

Biological Activity

In vitro gluconeogenesis assay in primary hepatocytes was performed, showing the Adiponectin human derived from mammalian cells can inhibit glucose production. The

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ED50 was ~6 µg/ml.

Stability

For long term, store lyophilized AdipoQ at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C . The lyophilized protein remains stable for 24 months when stored at -20°C .

Background

The Acrp30 Human Recombinant produced in HEK293 cells is fused with FLAG tag.

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