
Product Data Sheet

Product Name: Acrp30 Human, Trimeric

Cat. No.: GP20018

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 LPLPKGAATG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHIVYMK DVKVSLFKKD KAMLFTYDQY QENNVDQASG SVLLHLEVGD QVWLQVYGEG ERNGLYADND NDSTFTGFLY YHDTNDYKDD DDK.		
Solubility	Add deionized water to a working volume of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer, 0.075M NaCl, pH 7.4.		

Introduction

Adiponectin is a hormone exclusively expressed from adipose tissue. Many studies demonstrate that Adiponectin has direct anti-diabetic, anti-atherogenic and anti-inflammatory functions. APM-1 can increase insulin sensitivity of skeletal muscle. Attenuate hepatic lipogenesis and gluconeogenesis, regulate NO production in endothelial cells, inhibit proliferation of smooth muscle cells and prevent lipid accumulation of macrophage cells. In the circulation, Adiponectin is present as three different oligomeric complexes, including the high molecular weight (HMW), the middle molecular weight (MMW, also called hexamer) and low molecular weight (LMW, also called trimer) forms. Different oligomeric complex of Adiponectin activates different signaling pathways and exerts distinct functions.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Biological Activity

ED50= 3-8.5 $\mu\text{g/ml}$, as determined by its ability to inhibit proliferation of HASMCs induced by HB EGF.

Stability

Store lyophilized Adiponectin 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 .

Background

Trimeric form of Adiponectin Human trimeric form was expressed in HEK293 cells. The cysteine 39 was replaced with Alanine (C39A) 9. hAd-C39A can only form a trimer, but not a hexamer or an HMW form.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA