Product Data Sheet

Product Name:	Acrp30 Human, HMW
Cat. No.:	GP20017
Batch No.:	1

Product Data

Purity	>98%	Source	HEK293.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Acrp30; AdipoQ; GBP-28; APM-1; ACDC.		
Amino Acid Sequence	ETTTQGPGVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHITVYM KDVKVSLFKK DKAMLFTYDQ YQENNVDQAS GSVLLHLEVG DQVWLQVYGE GERNGLYADN DNDSTFTGFL LYHDTN.		
Solubility	It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Acrp30 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Acrp30 was filtered (0.4μm) and lyophilized from 0.5mg/ml in 20mM Tris, 50mM NaCl, pH 7.5 and 1mM CaCl2.		

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.

Stability

Store lyophilized protein 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.

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Background

Adiponectin Human Recombinant HMW Rich produced in HEK cells is a single, glycosylated, polypeptide chain (19-244) containing a total of 226 amino acids, having a molecular mass of 24.6kDa (calculated). Human Acrp30 HMW Rich migrates on SDS-PAGE under non-reducing conditions at ~ 884 kDa.

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