

Adiponectin Human Recombinant, HEK

Catalogue Number	IY-434
Synonyms	Acrp30, AdipoQ, GBP-28, APM-1, ACDC.
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.
Patent Rights	The sale and/or commercial use of Recombinant Adiponectin is prohibited in the United States of America (U.S.A).
Description	The Acrp30 Human Recombinant produced in HEK293 cells is fused with FLAG tag.
Source	HEK293 (Human Embryonic Kidney cell line).
Activity in vitro	In vitro gluconeogenesis assay in primary hepatocytes was performed, showing the Adiponectin human derived from mammalian cells can inhibit glucose production. The ED50 was ~6 µg/ml.
Physical Appearance	White lyophilized (freeze-dried) powder.
Formulation	Filtered (0.4µm) and lyophilized from 0.5 mg/ml in 20mM Tris Buffer, 20mM NaCl, pH 7.5.
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.
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.
Purity	Greater than 98% as determined by HPLC and SDS PAGE.
Amino acid sequence	ETTTQGGPVL LPLKGA CTG WMAGIPGHPG HNGAPGRDGR DGTPGKEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGE GA YVYRSAF SVG LETYVTIPNM PIRFTKIFYN QQNH YDGSTG KFHCNIPGLY YFAYHIVYMK DVKVSLFKKD KAMLFTYDQY QENNVDQASG SVLLHLEVGD QVWLQVYGE G ERNGLYADND NDSTFTGFLL YHDTNDYKDDDDK.
Usage	Products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.