

Adiponectin Protein, Bovine, Recombinant (His)

General Information

Synonyms:	Adipocyte complement-related 30 kDa protein (ACRP30);Adiponectin;Adipose most abundant gene transcript 1 protein (apM-1);ADIPOQ;Adipocyte, C1q and collagen domain-containing protein;APM1;ACRP30;30 kDa adipocyte complement-related protein
Protein Construction:	18-240 aa
Species:	Bovine
Expression Host:	P. pastoris (Yeast)
Accession:	Q3Y5Z3
Molecular Weight:	26.4 kDa (predicted)
AA Sequence:	EDNMEDPPLPKGACAGWMAGIPGHPGHNGTPGRDGRDGTGPEKGEKGDPLVGPKGDTGETGITGIEGPR GFPGTGPRKGEPEGESAYVYRSFAFSVGLERQVTVPNVPIRFTKIFYNQONHYDGTGKFLCNIPGLYYFSYHITV YLKDVKVSLSYKNDKALLFTHDQFQDKNVDQASGSVLLYLEKGDQVWLQVYEGENHNGVYADNVNDSTFTG FLLYHNIVE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the

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skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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