





Recombinant Bovine Adiponectin (ADIPOQ)

Product Code	CSB-YP661101BO
Relevance	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 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 rodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.
Abbreviation	Recombinant Bovine ADIPOQ protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q3Y5Z3
Alias	30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; ACRP30Adipocyte, C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; apM-1
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EDNMEDPPLPKGACAGWMAGIPGHPGHNGTPGRDGRDGTPGEKGEKGDPG LVGPKGDTGETGITGIEGPRGFPGTPGRKGEPGESAYVYRSAFSVGLERQVT VPNVPIRFTKIFYNQQNHYDGTTGKFLCNIPGLYYFSYHITVYLKDVKVSLYKND KALLFTHDQFQDKNVDQASGSVLLYLEKGDQVWLQVYEGENHNGVYADNVN DSTFTGFLLYHNIVE
Research Area	Others
Source	Yeast
Target Names	ADIPOQ
Protein Names	Recommended name: Adiponectin Alternative name(s): 30 kDa adipocyte complement-related protein Adipocyte complement-related 30 kDa protein Short name= ACRP30 Adipocyte, C1q and collagen domain-containing protein Adipose most abu
Expression Region	18-240aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged







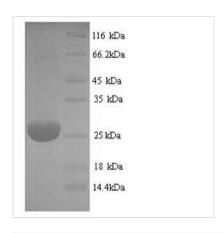
Mol. Weight

26.4kDa

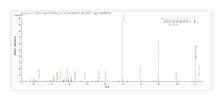
Protein Length

Full Length of Mature Protein

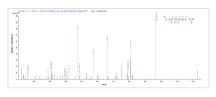
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP661101BO could indicate that this peptide derived from Yeast-expressed Bos taurus (Bovine) ADIPOQ.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP661101BO could indicate that this peptide derived from Yeast-expressed Bos taurus (Bovine) ADIPOQ.

Description

The recombinant Bovine ADIPOQ protein production in Yeast cells involves the integration of a DNA fragment encoding the Bovine ADIPOQ protein (18-240aa) into a plasmid vector, which is then introduced into Yeast cells. Following screening, positive cells are cultured and induced to synthesize the ADIPOQ protein. A N-terminal 6xHis tag is attached to the protein. Cell lysis is carried out to harvest the recombinant Bovine ADIPOQ protein, which is purified through affinity purification and then analyzed using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the resulting recombinant Bovine ADIPOQ protein reaches over 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.