

Product datasheet for **TP723007**

Adipoq (NM_009605) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse adiponectin, C1Q and collagen domain containing (Adipoq).
Species:	Mouse
Expression Host:	Hi-5 insect
Expression cDNA Clone or AA Sequence:	RGHHHHHHHH VTTTEELAPA LVPPPKGTCG GWMAGIPGHP GHNGTPGRDG RDGTPGEKGE KGDAGLLGPK GETGDVGMTG AEGPRGFPGT PGRKGEPGEA AYYVRSAFSV GLETRVTPNV VPIRFTKIFY NQQNHYDGST GKFYCNIPGL YYFSYHITVY MKDVKVSLFK KDKAVLFTYD QYQEKNVDAQ SGSVLLHLEV GDQVWLQVYG DGDHNGLYAD NVNDSTFTGF LLYHDTN
Tag:	N-His
Predicted MW:	35 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by a cytotoxic assay using M1 cells. The ED50 for this effect is 4.0-6.0 μ g/mL.
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_033735
Locus ID:	11450
UniProt ID:	Q60994
RefSeq Size:	1233
Cytogenetics:	16 13.96 cM
RefSeq ORF:	741
Synonyms:	30kDa; Acdc; Acrp30; Ad; adipo; apM1; APN; GBP28



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Summary:

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 remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.[UniProtKB/Swiss-Prot Function]