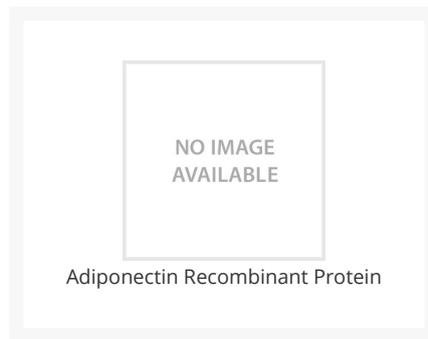




Adiponectin Recombinant Protein

Cat. No.: 40-328



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	High-5 Insect cells
SEQUENCE:	RGHHHHHHHH ETTTQPGVL LPLPGACTG WMAGIPGHPG HNGAPGRDGR DGTPGKEKGEK GDPGLIGPKG DIGETGPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFEVSG LETYVTIPNM PIRFTKIFYN QQNHYDGTG KFYCNIPGLY YFSYHITVYM KDVKVSFLFK DKAVLFTYDQ YQEKNDQAS GSVLLHLEVG DQVWLQVYGD GDHNGLYADN VNDSTFTGFL LYHDTN
TESTED APPLICATIONS:	

Ψ Properties

PURITY:	Greater than 97% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized Adiponectin recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Adiponectin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing Adiponectin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	ADIPOQ
ALTERNATE NAMES:	ACDC, ADPN, APM1, APM-1, GBP28, ACRP30, ADIPQTL1, ACDC, Adiponectin, 30 kDa adipocyte complement-related protein
ACCESSION NO.:	NP_001171271.1
PROTEIN GI NO.:	295317372
GENE ID:	9370

Background and References

BACKGROUND:	<p>Adiponectin is an adipose-derived secreted protein containing 226 amino acid residues. It is relatively abundant in humans and rodents, accounting for about 0.01% of total plasma protein. The circulating levels of adiponectin are decreased under conditions of obesity, insulin resistance, and type II diabetes. Disruption of adiponectin in mice causes insulin resistance and neointimal formation. Conversely, administration of recombinant adiponectin suppresses hepatic glucose production, and reverses insulin resistance associated with both lipodystrophy and obesity. The protective role of adiponectin is attributed to its anti-inflammatory properties (e.g. ability to suppress expression of TNF-α and class A scavenger receptor in macrophages). Recombinant adiponectin is a multimeric glycoprotein containing amino acids Glu-19 to Asn-244 of the adiponectin precursor protein fused to an N-terminal histidine tag. Monomeric glycosylated adiponectin migrates at an apparent molecular weight of approximately 25.9 kDa by SDS PAGE analysis under reducing conditions.</p>
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