

## ADIPOQ

### Recombinant Human Adiponectin / ACRP30

<b>Catalog No.</b>	CRA200A CRA200B CRA200C	<b>Quantity:</b>	5 µg 25 µg 1.0 mg
<b>Alternate Names:</b>	Adipocyte complement-related 30 kDa protein, Acrp30, 30 kDa adipocyte complement-related protein, Gelatin-binding protein, Adipocyte, C1q and collagen domain-containing protein		
<b>Description:</b>	<p>Adiponectin is a 30 kDa multimeric protein and is secreted mainly by white adipose tissue, although other tissues express low levels of adiponectin too. Full-length human adiponectin comprises 244 amino acid residues, including a N-terminal hyper-variable region (amino acids from 1–18), followed by a collagen-like domain structurally homologous with collagen VIII and X, consisting of 22 Gly-XY repeats, and a C-terminal C1q-like globular domain (amino acids from 108–244). In contrast to humans, mouse adiponectin is a 247 amino acid long protein. Adiponectin is secreted from adipocytes into the bloodstream as three oligomeric complexes, including trimer (67 kDa), hexamer (140 kDa), and a HMW (300 kDa) multimer comprising of at least 18 monomers. The monomeric form of adiponectin is undetectable in native conditions.</p> <p>Adiponectin is thought to play an important role in hyperglycemia, insulin resistance, cognitive decline in obesity, and signals through receptors, AdipoR1 and AdipoR2. T-cadherin as a receptor for hexameric and HMW forms of adiponectin.</p>		
<b>UniProt ID:</b>	Q15848		
<b>Gene ID:</b>	9370		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	25.1 kDa (aa 15-244)		
<b>Formulation:</b>	Liquid in PBS, 1 mM DTT, pH 7.4		
<b>Purity:</b>	> 90% as determined by SDS-PAGE analysis		
<b>Endotoxin Level:</b>	< 0.1 ng/µg of AdipoQ		
<b>Amino Acid Sequence:</b>	MGHDQETTTQ GPGVLLPLPK GACTGWMAGI PGHPGHNGAP GRDGRDGTGP EKGEKGDPLG IGPKGDIGET GVPGAEGPRG FPGIQGRKGE PGEYAYVYRS AFSVGLETYV TIPNMPPIRFT KIFYNQNHY DGSTGKFHCN IPGLYYFAYH ITVYMKDVKV SLFKKDKAML FTYDQYQENN VDQASGSVLL HLEVDGQVWL QVYGEGERNG LYADNDNDST FTGFLLYHDT N		
<b>Storage &amp; Stability:</b>	Stable for 2-4 weeks at 2-8°C. For long term storage, aliquot and store at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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