

## ADIPOQ

### Recombinant Human Adiponectin / ACRP30, FLAG-tag

<b>Catalog No.</b>	CRA026A CRA026B CRA026C	<b>Quantity:</b>	2 µg 10 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>	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.		
	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.		
<b>UniProt ID:</b>	Q15848		
<b>Gene ID:</b>	9370		
<b>Source:</b>	HEK 293 (Human embryonic kidney cell line)		
<b>Formulation:</b>	Lyophilized from a 0.4 µm filtered 50 mM phosphate buffer, 75 mM NaCl, pH 7.4		
<b>Purity:</b>	> 98% as determined by HPLC and SDS-PAGE analyses		
<b>Endotoxin Level:</b>	< 0.1 ng/µg of ACRP30		
<b>Biological Activity:</b>	ED <sub>50</sub> ~6 µg/ml, by <i>in vitro</i> gluconeogenesis assay in primary hepatocytes demonstrates this product inhibits glucose production.		
<b>Amino Acid Sequence:</b>	ETTTQGPGVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHIVYMK DVKVSLFKKD KAMLFTYDQY QENNVQASG SVLLHLEVGD QVWLQVYGEK ERNGLYADND NDSTFTGFLL YHDTNDYKDD DDK		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add deionized water to the vial to fully solubilize the protein to a concentration of 0.5 mg/ml. <b>Note: Product not sterile. Please filter product by an appropriate sterile filter before using it in cell culture.</b>		
<b>Storage &amp; Stability:</b>	Lyophilized protein is stable at -20°C to -80°C for up to 1 year and reconstituted protein is stable for 2 weeks at 2-8°C. Recommended to store aliquots of reconstituted product at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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