

Adipoq

Recombinant Mouse Globular Adiponectin / gACRP30

Catalog No.	CRA024A CRA024B CRA024C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Adipocyte complement-related 30 kDa protein, Acrp30, 30 kDa adipocyte complement-related protein, Gelatin-binding protein, Adipocyte, C1q and collagen domain-containing protein		
Description:	<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>Globular adiponectin, the globular C1q domain of adiponectin generated from full-length protein by naturally occurring proteolysis is biologically active. gACRP30 is detected at a relatively high concentrations in the serum and is thought to play an important role in hyperglycemia and insulin resistance. gACRP30 signals through receptors, AdipoR1 and AdipoR2. T-cadherin as a receptor for hexameric and HMW forms of adiponectin.</p>		
UniProt ID:	Q60994		
Gene ID:	11450		
Concentration:	1.0 mg/ml		
Source:	<i>E. coli</i>		
Molecular Weight:	16 kDa, amino acids 111-247		
Formulation:	20 mM Tris-HCl, 50 mM NaCl, 5 mM DTT, pH 7.5 containing 10% glycerol		
Purity:	> 95.0% as determined by SDS-PAGE analysis		
Endotoxin Level:	< 0.1 ng/µg adiponectin		
Amino Acid Sequence:	MAYMYRSAFS VGLETRVTVP NVPIRFTKIF YNQQNHVDGS TGKFYCNIPG LYYFSYHITV YMKDVKVSLF KKDKAVLFTY DQYQEKVDQ ASGSVLLHLE VGDQVWLQVY GDGDHNGLYA DNVNDSTFTG FLLYHDTN		
Storage & Stability:	Store at 2-8°C if the entire vial will be used within 2-4 weeks. For long term storage it is recommended to add a carrier protein such as 0.1% HSA or BSA, and store in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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