

Adiponectin/Acrp30 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700948
Synonyms:	rMuAdiponectin, His; Acrp30; ADIPOQ
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5X7X6 (Q48-N274)
Gene ID:	102123471
Molecular Weight:	30-40 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Adiponectin/Acrp30 protein stands as a crucial adipokine with significant implications in the regulation of fat metabolism and insulin sensitivity, exerting direct anti-diabetic, anti-atherogenic, and anti-inflammatory effects. Its influence extends to the stimulation of AMPK phosphorylation and activation in the liver and skeletal muscle, thereby enhancing glucose utilization and fatty-acid combustion. Adiponectin/Acrp30 plays a pivotal role in dampening the pro-inflammatory effects of TNF-alpha by negatively regulating its expression in various tissues, including the liver and macrophages, and counteracting its downstream effects. Furthermore, it exhibits the ability to inhibit endothelial NF-kappa-B signaling through a cAMP-dependent pathway. Beyond its metabolic functions, Adiponectin/Acrp30 may contribute to cell growth, angiogenesis, and tissue remodeling by binding and sequestering various growth factors, with distinct affinities depending on the type of complex formed—LMW, MMW, or HMW. Notably, the polymerization and secretion of adiponectin are subject to inhibition by succination of cysteine residues, a process mediated by the Krebs cycle intermediate fumarate, leading to the formation of S-(2-succinyl)cysteine residues. These intricate mechanisms highlight the multifaceted role of Adiponectin/Acrp30 in orchestrating metabolic, anti-inflammatory, and growth-related processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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