Overview

Synonyms	Acrp-30, GBP-28, Apm-1
Description	**Adiponectin** is a hormone mainly produced by adipocytes. Adiponectin forms a homotrimer and exists as higher order multimers *in vivo*. The receptors of Adiponectin are seven transmembrane G protein coupled receptors: Receptor 1 is expressed in skeletal muscle and Receptor 2 in liver. Adiponectin receives a lot of attention because of its anti-diabetic, anti-atherosclerotic, and anti-inflammatory properties. Adiponectin increases the expression of molecules involved in fatty acid transport, combustion of fatty acid, and energy dissipation, and increases insulin sensitivity of the body. Decreased levels of Adiponectin are associated with hypertension, cardiovascular diseases, and metabolic syndromes. Therefore, Adiponectin has promising potential as a pharmacological agent. Recombinant **mouse Adiponectin (rmAdiponectin)** produced in *E. coli* is a single non-glycosylated polypeptide chain containing 227 amino acids. A fully biologically active molecule, rmAdiponectin has a molecular mass of 24.6 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Accession No	Q60994
Species	Mouse
Source	*E. coli*
Biological Activity	ED_{50} < 5 µg/mL, measured by a cell growth inhibitory assay using M1 cells, corresponding to a specific activity of > 2×10^{2} units/mg.
Sequence	VTTTEELAPA LVPPPKGTCA GWMAGIPGHP GHNGTPGRDG RDGTPGEKGE KGDAGLLGPK GETGDVGMTG AEGPRGFPGT PGRKGEPGEA AYVYRSAFSV GLETRVTVPN VPIRFTKIFY NQQNHYDGST GKFYCNIPGL YYFSYHITVY MKDVKVSLFK KDKAVLFTYD QYQEKNVDQA SGSVLLHLEV GDQVWLQVYG DGDHNGLYAD NVNDSTFTGF LLYHDTN

Properties

Measured Molecular Weight	24.6 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **mouse Adiponectin (rmAdiponectin)** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmAdiponectin remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Mobile: +91-9810521400, Ph: +91-11-42208000
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com