



Product Datasheet

Product Name	Globular Adiponectin Human Recombinant
Cata No	CB501349
Source	<i>Escherichia Coli.</i>
Synonyms	Acrp30, AdipoQ, GBP-28, APM-1, ACDC.

Description

gAcrp30 globular protein, exists as a result of proteolytic processing of adiponectin. Adiponectin is manufactured and secreted solely by adipocytes, and is a highly obtained plasma protein, accounting for up to 0.05% of total serum protein. Similar to Adiponectin, gAcrp30 is able of lowering hyperglycemia and reversing insulin resistance. In addition, gAcrp30 is an significant protein that is involved in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids. AdipoR1 & AdipoR2 are the 2 signaling receptors for adiponectin and gAcrp30 that were recently been identified.

gAcrp30 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 145 amino acids and having a molecular mass of 16690 Dalton.

The gAcrp30 is purified by proprietary chromatographic techniques.

Biological Activity

gAcrp30 activity is determined by its ability to inhibit the proliferation of mouse M1 cells. The expected ED₅₀ for this effect is 1.0 – 2.5 µg/ml.

Purity

Greater than 97% as determined by HPLC and SDS PAGE.

Formulation

Sterile filtered and lyophilized from 1mg/ml in 10mM Tris pH-8 & 0.75mM DTT.

Reconstitution

We recommended reconstituting gAcrp30 at a concentration of 0.1-1mg per ml with 5mM Tris pH-8 and 0.75mM DTT which can then be further diluted to other aqueous solutions.

Stability

For long term, store lyophilized protein at -20°C. Aliquot the product after reconstitution to **avoid repeated freezing/thawing cycles**. Reconstituted protein can be stored at 4°C for a limited period of time two weeks.

Sequence

MKGEPGEGAY VYRSAFSVGL ETYVTIPNMP
IRFTKIFYNQ QNHYDGSTGK FHCNIPGLYY
FAYHITVYMK DVKVSFLFKK KAMLFTYDQY
QENNVDQASG SVLLHLEVGD QVWLQVYGE
ERNGLYADND NDSTFTGFL YHDTN