

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Adiponectin, Human(CHO-expressed)

Catalog Number: BK0182-1mg

Source: CHO

Quantity: 1mg

Description:

Adiponectin is an important adipokine involved in the control of fat metabolism and insulin sensitivity. It is synthesized exclusively by adipocytes and secreted into plasma. It antagonizes THF-alpha by negatively regulating its expression. It also inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. Adiponectin can form low molecular weight complexes (LMW), middle molecular weight complexes (MMW) and higher molecular weight complexes (HMW). These bind to various growth factors, such as HBEGF, PDGFB and FGF2, and play a role in cell growth, angiogenesis and tissue remodeling.

Molecular Weight:

25~28 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 2ng/ml, measured in a cell growth inhibition assay using M1 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

ETTTQGGPVLLPLPKGACTGWMAGIPGHPGH-
NGAPGRDGRDGTPEKGEKGDPLIGPKG-
DIGETGVP-
GAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGL-
TYVTIPNMPPIRFTKIFYNQNHYD-
GSTGKFHCNIPGLYY-
FAYHITVYMKDVKVSFLFKDKAM-
LFTYDQYQENNVDQASGSVLLHLEVGDQVWLQ
VYGEGERNGLYADNDNDSTFTGFLLYHDTN

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Human Adiponectin remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Adiponectin should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.