

Recombinant mouse Adiponectin protein ab134631

描述

产品名称	重组小鼠Adiponectin蛋白
生物活性	Determined by a cytotoxic assay using M1 cells. The ED50 is 4.0-6.0 µg/ml.
纯度	> 95 % SDS-PAGE.
表达系统	BTI-TN-5B1-4 cells
Accession	<u>Q60994</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Mouse
序列	<pre> RGHHHHHHHH VTTTEELAPA LVPPPKGTC AWMAGIPGHP GHNGTPGRDG RDGTPGEKGE KG DAGLLGPK GETGDVGMTG AEGPRGFPGT PGRKGEPGEA AYVYRSAFSV GLETRVTVPN VPIRFTKIFY NQQNHYDGST GKFYCNIPGL YYFSYHITVY MKDVKVSLFK KDKAVLFTYD QYQEKVDQA SGSVLLHLEV GDQVWLQVYG DGDHNGLYAD NVNDSTFTGF LLYHDTN </pre>
预测分子量	26 kDa including tags
氨基酸	21 to 247
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab134631** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
	HPLC
	Functional Studies
形式	Lyophilized

制备和贮存

稳定性和存储

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituents: 0.2% Tris, 1.3% L-Arginine

This product is an active protein and may elicit a biological response in vivo, handle with caution.

复溶

Reconstitute in water to a concentration of 1.0 mg/ml.

常规信息

功能

Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.

组织特异性

Synthesized exclusively by adipocytes and secreted into plasma.

疾病相关

Defects in ADIPOQ are the cause of adiponectin deficiency (ADPND) [MIM:612556]. ADPND results in very low concentrations of plasma adiponectin.

Genetic variations in ADIPOQ are associated with non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853]; also known as diabetes mellitus type 2. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance.

序列相似性

Contains 1 C1q domain.

Contains 1 collagen-like domain.

结构域

The C1q domain is commonly called the globular domain.

翻译后修饰

Hydroxylated Lys-33 was not identified in PubMed:16497731, probably due to poor representation of the N-terminal peptide in mass fingerprinting.

HMW complexes are more extensively glycosylated than smaller oligomers. Hydroxylation and glycosylation of the lysine residues within the collagen-like domain of adiponectin seem to be critically involved in regulating the formation and/or secretion of HMW complexes and consequently contribute to the insulin-sensitizing activity of adiponectin in hepatocytes.

O-glycosylated. Not N-glycosylated. O-linked glycans on hydroxylysines consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups. Sialylated to varying degrees depending on tissue. Thr-22 appears to be the major site of sialylation. Higher sialylation found in SGBS adipocytes than in HEK fibroblasts. Sialylation is not required neither for heterodimerization nor for secretion. Not sialylated on the glycosylated hydroxylysines.

Desialylated forms are rapidly cleared from the circulation.

细胞定位

Secreted.

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