

Recombinant Human Adiponectin protein ab51294

1 图像

描述

产品名称 重组人Adiponectin蛋白

纯度 > 90 % SDS-PAGE.

内毒素水平 < 1.000 Eu/μg

表达系统 Escherichia coli

Accession **Q15848**

蛋白长度 Full length protein

无动物成分 No

性质 Recombinant

种属 Human

序列

```
MGHDQETTTQ GPGVLLPLPK GACTGWMAGI
PGHPGHNGAP GRDGRDGTTPG EKGEKGD PGL
IGPKGDIGET GVPGAEGPRG FPGIQGRKGE
PGEGAYVYRS AFSVGLLET YV TIPNMP IRFT
KIFYNQNH Y DGSTGKFHCN IPGLYYFAYH
ITVYMKDVKV SLFKKDKAML FTYDQYQENN
VDQASGSVLL HLEVGDQVWL QVYGEGERNG
LYADNDNDST FTGFLLYHDT N
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预测分子量 25 kDa

氨基酸 15 to 244

技术指标

Our **Abpromise guarantee** covers the use of **ab51294** 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

形式 Liquid

制备和贮存

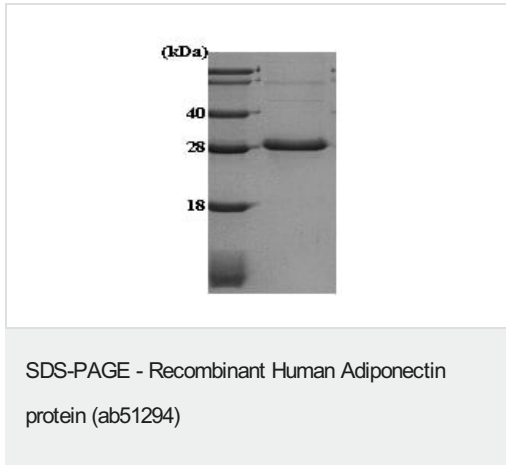
稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 7.40
Constituents: PBS, 0.0154% DTT

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. |

图片



15% SDS-PAGE analysis of recombinant mature human adiponectin ab51294

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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