gAcrp30/Adipolean Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: apm-1, Adipolean (human)

Cat. No.:

RBG10152005	(5 µg)
RBG10152025	(25 µg)
RBG10152100	(100 µg)

Description

gAcrp30 is a naturally occurring globular protein obtained by proteolytic processing of adiponectin. Adiponectin is produced and secreted exclusively by adipocytes, and is a relatively abundant plasma protein, accounting for up to 0.05% of total serum protein. Like Adiponectin, gAcrp30 is capable of decreasing hyperglycemia and reversing insulin resistance. Additionally, gAcrp30 has been shown to be an important factor in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids (FFAs). The signaling receptors for adiponectin and gAcrp30 have recently been identified and named AdipoR1 and AdipoR2. AdipoR2 is predominantly expressed in the liver. Recombinant Human gAcrp30/Adipolean is a 16.6 kDa protein consisting of 145 amino acid residues.

Research topic

Energy metabolism and body weight regulation

Amino Acid Sequence

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MKGEPGEGAY VYRSAFSVGL ETYVTIPNMP IRFTKIFYNQ QNHYDGSTGK FHCNIPGLYY FAYHITVYMK DVKVSLFKKD
KAMLFTYDQY QENNVDQASG SVLLHLEVGD QVWLQVYGEG ERNGLYADND NDSTFTGFLL YHDTN
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Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit the proliferation of murine M1 cells. The expected ED_{50} for this effect is 1.0-3.0 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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