gAcrp30/Adipolean Variant Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: apm-1 variant

Cat. No.:

RBG10153005	(5 µg)
RBG10153025	(25 µg)
RBG10153100	(100 µg)

Description

The gAcrp30 variant 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, Acrp30 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. This naturally occurring variant of human gAcrp30/Adipolean is an 18.1 kDa protein, containing 14 extra amino acids extra at the N-terminus of human gAcrp30/Adipolean.

Research topic

Energy metabolism and body weight regulation

Amino Acid Sequence

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PGAEGPRGFP GIQGRKGEPG EGAYVYRSAF SVGLETYVTI PNMPIRFTKI FYNQQNHYDG STGKFHCNIP GLYYFAYHIT
VYMKDVKVSL FKKDKAMLFT YDQYQENNVD QASGSVLLHL EVGDQVWLQV YGEGERNGLY ADNDNDSTFT GFLLYHDTN
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Source

E. coli

Purity

98%

Biological Activity

Determined by a cytotoxicity assay using M1 cells. The expected ED_{50} for this effect is 0.5-1.0 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 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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