

Adipolin Protein, Mouse, Recombinant (E. coli, His)

General Information

Synonyms:	Complement C1q tumor necrosis factor-related protein 12; Adipose-derived insulin-sensitizing factor; Ctrp12; C1qdc2; Adipolin; C1qtnf12; Fam132a
Protein Construction:	22-308 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8R2Z0
Molecular Weight:	37.0 kDa (predicted)
AA Sequence:	RQELKKSRLFARVDSNITTSNREGFPGSVKPEASGPELSDAHMTWLNFRPDDGSSRKRCRGRDKKSR GLSGLPGPPGPPGPPGPPGSPGVGVTPPEALLQEFQEILKEATELRFSGLPDTPQLPEPSQRLVVEAFYCRLKGP VLVDKKTLLVELQGFQAPTTQGAFLRGSGLSLSLGRFTAPVSAIFQFSASLHVDHSELQGRGRLRTRDMVRVLIC IESLCHRHTSLEAVSGLESNSRVFTVQVQGLLHLQSGQYVSVFVDNSSGAVLTIQNTSSFSGMLLGT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Insulin-sensitizing adipocyte-secreted protein (adipokine) that regulates glucose metabolism in liver and adipose tissue. Promotes glucose uptake in adipocytes and suppresses de novo glucose production in hepatocytes via the PI3K-Akt signaling pathway. Administration lead to reduction of blood glucose. Able to attenuate inflammation in fat tissue.; Acts by activating the Akt signaling in hepatocytes and adipocytes. Not able to increase insulin-stimulated glucose uptake in adipocytes.; Acts by activating the MAP kinase. Increases insulin-stimulated glucose uptake in adipocytes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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