

Recombinant Human Angiopoietin-like 8/ANGPTL8 (22-198) Protein

Catalog No.: RP02831 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	55908	Q6UXH0

Tags

N-hFc

Synonyms

Betatrophin;Angiopoietin-like protein 8;Lipasin;Angptl8;ANGPTL8

Product Information

Source	Purification
HEK293 cells	> 80% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
46 kDa	54 kDa

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

The protein specifically promotes pancreatic beta cell proliferation and beta cell mass expansion, thereby improving glucose tolerance. It promotes pancreatic beta cell proliferation without insulin resistance. Also it acts as a blood lipid regulator by regulating serum triglyceride levels and possibly by promoting ANGPTL3 cleavage. It interacts with ANGPTL3. It predominantly expressed in liver and also expressed in adipose tissues. The ability of the protein to induce pancreatic beta cell proliferation is promising in diabetes therapy. Betatrophin treatment could supply or replace insulin injections by increasing the number of insulin-producing cells in diabetes.

Basic Information

Description

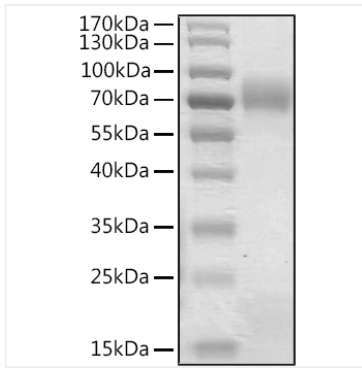
Recombinant Human Angiopoietin-like 8/ANGPTL8(22-198) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala22-Ala198) of human Angiopoietin-like 8/ANGPTL8 (Accession #NP_061157.3) fused with a hFc tag at the N-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Angiopoietin-like 8/ANGPTL8 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 54 KDa.