

Recombinant rat FGF21 protein ab202819

Description

Product name	Recombinant rat FGF21 protein
Biological activity	ab202819 is fully biologically active when compared to standard. The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 µg/mL, corresponding to a specific activity of $> 2.0 \times 10^3$ IU/mg in the presence of 5 µg/mL of rMuKlotho-β and 10 µg/mL of heparin.
Purity	> 95 % SDS-PAGE. Purity is determined by SDS-PAGE and HPLC analyses.
Endotoxin level	> 1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>Q8VI80</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	AYPISDSSPLLQFGGQVRQRYLYTDDDQDTEAHLEIREDG TVVGTAHRSP ESLLELKALKPGVIQILGVKASRFLCQQPDGTLYGSPHFDP EACSFRELL LKDGYNVYQSEAHGLPLRLPQKDSQDPATRGPPVRFLPMP GLPHEPQEQPG VLPPEPPDVGSSDPLSMVEPLQGRSPSYAS
Predicted molecular weight	20 kDa
Amino acids	29 to 208
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included. A single non-glycosylated polypeptide chain.

Specifications

Our **Abpromise guarantee** covers the use of **ab202819** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	HPLC

SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 2.9% Sodium chloride, 97% PBS

Lyophilized from a 0.2 µM filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions. Reconstituted protein should be stored in working aliquots and stored at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

General Info

Function Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity requires the presence of KLB.

Sequence similarities Belongs to the heparin-binding growth factors family.

Cellular localization Secreted.

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

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