

# Recombinant human FGF21 protein (Active) ab54141

## 1 References

### Description

<b>Product name</b>	Recombinant human FGF21 protein (Active)
<b>Biological activity</b>	Determined by its ability to stimulate the proliferation of murine NIH-3T3 cells.
<b>Purity</b>	> 90 % SDS-PAGE. >90% HPLC analyses.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>Q9NSA1</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESLLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSYAS
<b>Predicted molecular weight</b>	20 kDa
<b>Amino acids</b>	29 to 209
<b>Additional sequence information</b>	Full length Mature protein, minus the signal peptide.

### Specifications

Our **Abpromise guarantee** covers the use of **ab54141** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE HPLC
<b>Form</b>	Lyophilized
<b>Additional notes</b>	For extended storage, further dilute the reconstituted protein in a buffer (example PBS) containing

a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

## Preparation and Storage

---

### Stability and Storage

Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

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

### Reconstitution

Reconstituted FGF-21 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. We recommend to reconstitute it in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For lot specific reconstitution information please contact our Scientific Support Team.

## 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"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors