

Animal-Free FGF-21 Protein, Human (His)

Cat. No.:	HY-P70473AF
Synonyms:	FGF-21; Fibroblast Growth Factor-21(FGF-21)
Species:	Human
Source:	E. coli
Accession:	Q9NSA1 (H29-S209)
Gene ID:	26291
Molecular Weight:	Approximately 20.35 kDa

PROPERTIES

AA Sequence	<p>M H P I P D S S P L L Q F G G Q V R Q R Y L Y T D D A Q Q T E A H L E I R E D G</p> <p>T V G G A A D Q S P E S L L Q L K A L K P G V I Q I L G V K T S R F L C Q R P D</p> <p>G A L Y G S L H F D P E A C S F R E L L L E D G Y N V Y Q S E A H G L P L H L P</p> <p>G N K S P H R D P A P R G P A R F L P L P G L P P A L P E P P G I L A P Q P P D</p> <p>V G S S D P L S M V G P S Q G R S P S Y A S</p>
Biological Activity	Measure by its ability to induce proliferation in BaF3 cells transfected with human FGFR3c. The ED ₅₀ for this effect is <0.4 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The FGF-21 protein plays a pivotal role in promoting glucose uptake within differentiated adipocytes by specifically inducing the expression of the glucose transporter SLC2A1/GLUT1, while not affecting SLC2A4/GLUT4 expression. Its activity is contingent upon the presence of KLB. Beyond its localized effects, this protein contributes significantly to the regulation of systemic glucose homeostasis and insulin sensitivity. The direct interaction with KLB, facilitated via its C-terminus, underscores the molecular basis of its functionality. Additionally, the protein engages with FGFR4, further highlighting the</p>
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complexity of its interactions in orchestrating cellular responses.

Caution: Product has not been fully validated for medical applications. For research use only.

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