

FGF-21 Protein, Human (His)

Cat. No.:	HY-P70473
Synonyms:	Fibroblast Growth Factor 21; FGF-21; FGF21
Species:	Human
Source:	E. coli
Accession:	AAH18404.1 (H29-S209)
Gene ID:	26291
Molecular Weight:	Approximately 23.0 kDa

PROPERTIES

AA Sequence	<pre> 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 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 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 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 V G S S D P L S M V G P S Q G R S P S Y A S </pre>
Biological Activity	Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED ₅₀ this effect is 1.756 µg/mL in the presence of 1.25 µg/mL, recombinant human Klotho beta. Corresponding to a specific activity is 569.4761 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 100 mM NaCl, 2 mM EDTA, pH 9.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	FGF-21 protein exerts its biological influence by promoting glucose uptake in differentiated adipocytes, primarily through inducing the expression of the glucose transporter SLC2A1/GLUT1, rather than SLC2A4/GLUT4. This activity is likely contingent on the presence of KLB. Beyond its localized effects, FGF-21 plays a crucial role in the regulation of systemic
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glucose homeostasis and insulin sensitivity. The protein interacts directly with KLB, facilitated by its C-terminus, and also engages with FGFR4, indicating a complex interplay in its molecular mechanisms.

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

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