

FGF-21 Protein, Human (HEK293, mFc-Avi)

Cat. No.:	HY-P78442
Synonyms:	UNQ3115; PRO10196; FGF-21; FGF21
Species:	Human
Source:	HEK293
Accession:	Q9NSA1 (H29-S209)
Gene ID:	26291
Molecular Weight:	52-60 kDa

PROPERTIES

Biological Activity	Immobilized Human FGF21 at 5 µg/mL (100 µl/Well) on the plate. Dose response curve for Human Beta Klotho, His Tag with the EC ₅₀ of 2.29 µg/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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.
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	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 complexity of its interactions in orchestrating cellular responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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