FGF-21 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P72650
Synonyms:	FGF21; Fibroblast Growth Factor 21; FGF-21
Species:	Cynomolgus
Source:	HEK293
Accession:	XM_005589811.2 (H29-S209)
Gene ID:	102126624
Molecular Weight:	19-24 kDa

PROPERTIES

AA Sequence	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 H 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 K P D G A L Y G S L H F D P E A C S F R E L L L E N 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 S Q G P A R F L P L P G L P P A P 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 A R S P S Y A S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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, a stress-inducible hormone, regulates energy balance and glucose and lipid homeostasis through a heterodimeric receptor complex comprising FGFR1 and β-klotho. When binding to the FGFR1-β-klotho complex, FGF-21 triggers autophosphorylationof FGFR1 and activation of the downstream MAPK signalling cascade, and leads to phosphorylation-dependent activation of ERK1/2. FGF-21 can also signal through FGFR2 and FGFR3[1]. In additon, FGF-21 stimulates the oxidation of fatty acids, the production of ketone bodies, and the inhibition of lipogenesis. FGF-21 decreases blood glucose and plasma insulin in ob/ob obese mice, and can be used for research of obesity, NASH, NAFLD, and type 2 diabetes mellitus[1][2].

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

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