

## Animal-Free FGF-20 Protein, Human (His)

Cat. No.:	HY-P700062AF
Synonyms:	Fibroblast growth factor 20; FGF20
Species:	Human
Source:	E. coli
Accession:	Q9NP95 (P3-T211)
Gene ID:	26281
Molecular Weight:	Approximately 24.24 kDa

### PROPERTIES

AA Sequence	<pre> M P L A E V G G F L   G G L E G L G Q Q V   G S H F L L P P A G   E R P P L L G E R R S A A E R S A R G G   P G A A Q L A H L H   G I L R R R Q L Y C   R T G F H L Q I L P D G S V Q G T R Q D   H S L F G I L E F I   S V A V G L V S I R   G V D S G L Y L G M N D K G E L Y G S E   K L T S E C I F R E   Q F E E N W Y N T Y   S S N I Y K H G D T G R R Y F V A L N K   D G T P R D G A R S   K R H Q K F T H F L   P R P V D P E R V P E L Y K D L L M Y T           </pre>
Biological Activity	The ED <sub>50</sub> is 1.3-3.2 ng/mL as measure by its ability to induce 3T3 cells proliferation, corresponding to a specific activity of recombinant human FGF-20 is > 2 x 10 <sup>5</sup> IU/mg.
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 <sub>2</sub> 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	FGF-20 protein serves as a neurotrophic factor crucial for the regulation of central nervous system development and function. Operating as a homodimer, it interacts with specific receptors, namely FGFR2 and FGFR4. The binding affinity between fibroblast growth factors (FGFs) and their receptors is enhanced by heparan sulfate glycosaminoglycans, acting as coreceptors in this intricate signaling process.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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