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## Product Data Sheet

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Product Name: FGF20 Human

Cat. No.: GP20244

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast Growth Factor 20; FGF-20; RHDA2; FGF20.		
Amino Acid Sequence	MHHHHHHAPL AEVGGFLGGL EGLGQQVGSF FLLPPAGERP PLLGERRSAA ERSARGGPGA AQLAHLHGIL RRRQLYCRTG FHLQILPDGS VQGTRQDHSF FGILEFISVA VGLVSIRGVD SGLYLG MNDK GELYGSEKLT SECIFREQFE ENWYNTYSSN IYKHGDTGRR YFVALNKDGT PRDGARSKRH QKFTHFLPRP VDPERVPELY KDLLMYT.		
Solubility	It is recommended to reconstitute the lyophilized FGF-20 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in MOPS, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , DTT and EDTA.		

**Introduction**

Fibroblast growth factor 20 (FGF20) belongs to the FGF gene family and member of FGF-9 subfamily (based upon its structure). Human FGF20 has several receptors which include FGF R1c, FGF R2c, FGF R3b, FGF R3c and FGF R4. FGF20 is expressed a various cells, including dopaminergic neurons, fibroblasts, keratinocytes and breast epithelium, and numerous sites in the fetus.

**Biological Activity**

The ED<sub>50</sub>, as measured in a proliferation assay using mouse NR6R-3T3 cells, is less than 2.5ng/ml.

**Stability**

Lyophilized FGF20 although stable at room temperature for 3 weeks, should be stored

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

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desiccated below  $-18^{\circ}\text{C}$  . Upon reconstitution FGF-20 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$  .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

FGF20 Human Recombinant (1-211) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 217 amino acids and having a molecular mass of 24kDa.The FGF-20 is fused to a 6 amino acid His tag [HHHHHH] at N-terminus and purified by proprietary chromatographic techniques.

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