FGF19
Recombinant Human Fibroblast Growth Factor 19

Catalog No.	CRF153A	**Quantity:**	5 µg
	CRF153B		25 µg
	CRF153C		1.0 mg

Alternate Names: human FGF-19, h-FGF-19, rh-FGF-19, recombinant human FGF-19, recombinant FGF-9, FGF, FGF-19, FGF 19, FGF19

Description: Fibroblast growth factor-19 (FGF19) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGFs are expressed during embryonic development and in restricted adult tissues. Four distinct but related classes of FGF receptors, FGF R1, 2, 3, and 4, exist. Unlike most FGFs which bind to and activate more than one FGF receptor, FGF19 is a specific ligand for FGF R4.

Gene ID: 9965

Protein Accession No: NM_005117

Source: *E. coli*

Molecular Weight: 21.8 kDa

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Purity: ≥95% as determined by SDS-PAGE and HPLC analysis

Endotoxin Level: Less than 1EU/µg of rHuFGF-19 as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 150 ng/ml.

Specific Activity: ≥ 6.7 x 10^3 IU/mg.

Amino Acid Sequence: MRPLAFSDAG PHVHYGWGDP IRLRHLYTSG PHGLSSCFLR IRADGVVDCA RGQSAHSLLE IKAVALRTVA IKGVHSVRYL CMGADGKMQG LLQYSEEDCA FEEEIRPDGY NVYRSEKHRL PVSLSSAKQR QLYKNRGFLP LSHFLPMLPM VPEEPEDLRG HLESDMFSSP LETDSMDPFG LVTGLEAVRS PSFEK

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com