



## Fibroblast Growth Factor-13, human recombinant (rHuFGF13)

**Catalog No:** 97440  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Fibroblast growth factor 13, FGF-13, Fibroblast growth factor homologous factor 2, FHF-2, FGF13, FHF2

### Background

Fibroblast growth factor 13 (FGF-13) is a member of the large FGF family which has at least 23 members. Most of its members are heparin binding growth factors with a core 120 amino acid (aa) FGF domain which allows for a mutual tertiary structure. Human and mouse FGF13 are 245 aa proteins which arise from genes that show N-terminal alternative splicing. Transcripts for 245 aa, 199 aa, 226 aa, 192 aa and 255 aa have been identified in human and mouse, with almost complete cross-species aa identity among all splice forms (greater than 98%). FGF13 is identified in the fetal ependyma, dorsal root and cranial ganglia, both atrial and ventricular myocardium, and in renal collecting duct-associated mesenchyme.

### Description

FGF-13 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 245 amino acids and having a molecular mass of 27.6 kDa. FGF-13 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

FGF13 protein was lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 0.5 M NaCl, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized FGF-13 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized FGF13, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-13 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

MAAAIASSLI RQKRQARERE KSNACKCVSS PSKGTSCDK NKLNVFSRVK LFGSKRRRR RPEPQLKGIV TKLYSRQGYH  
LQLQADGTID GTKDEDSTYT LFNLI PVGLR VVAIQGVQTK LYLAMNSEGY LYTSELF TPE CKFKESVFEN YYVTYSSMIY  
RQQQSGRGWY LGLNKEGEIM KGNHVKKKPK AAHFLPKPLK VAMYKEPSLH DLTEFSRSGS GTPTKRSRVS GVLNNGKSMS  
HNEST

### Usage

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**CONTACT US TODAY**

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51