
Product Data Sheet

Product Name: FGF13 Human
 Cat. No.: GP20231
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast growth factor 13; FGF-13; Fibroblast growth factor homologous factor 2; FHF-2; FGF13; FHF2.		
Amino Acid Sequence	MAAAIASSLI RQKRQARERE KSNACKCVSS PSKGGTSCDK NKLNVFSRVK LFGSKKRRRR RPEPQLKGIV TKLYSRQGYH LQLQADGTID GTKDEDSTYT LFNLI PVGLR VVAIQGVQTK LYLAMNSEGY LYTSELFTPE CKFKESVFEN YYVTYSSMIY RQQQSGRGWY LGLNKEGEIM KGNHVKKKNKP AAHFLPKPLK VAMYKEPSLH DLTEFSRSGS GTPTKRSVS GVLNGGKSMS HNEST.		
Solubility	It is recommended to reconstitute the lyophilized FGF-13 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF13 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, 0.5M NaCl, pH 7.4.		

Introduction

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 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.

Stability

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

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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.

Background

FGF13 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 245 amino acids and having a molecular mass of 27.6kDa. The FGF-13 is purified by proprietary chromatographic techniques.

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