
Product Data Sheet

Product Name: FGF 18 Human
 Cat. No.: GP20238
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast growth factor 18; FGF-18; zFGF5; FGF18.		
Amino Acid Sequence	AEENVDFRIH VENQTRARDD VSRKQLRLYQ LYSRTSGKHI QVLGRRISAR GEDGDKYAQL LVETDTFGSQ VRIKGGKETF YLCMNRKGKL VGKPDGTSKE CVFIEKVLEN NYTALMSAKY SGWYVGFTKK GRPRKGPTR ENQQDVHFMK RYPKGGPELQ KPFKYTTVTK RRRIRPTHP A.		
Solubility	It is recommended to reconstitute the lyophilized FGF-18 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF-18 protein was lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Fibroblast growth factor 18 (FGF18) is a member of the large FGF family which has at least 23 members. FGF18 is a binding growth factor with a core 120 amino acid FGF domain which allows for a common tertiary structure. FGFs are expressed in the course of the embryonic development and in restricted adult tissues. FGF-18 is an indispensable regulator of long bone and calvarial development. FGF-18 signals via FGFR 1c, 2c, 3c, and 4.

Biological Activity

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is < 0.5ng/ml, corresponding to a specific activity of > 2.06⁻¹10⁶ units/mg.

Stability

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

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Lyophilized FGF-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FGF-18 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

FGF-18 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 181 amino acids and having a molecular mass of 21.1kDa. The FGF-18 is purified by proprietary chromatographic techniques.

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