
Product Data Sheet

Product Name: FGF 18 Mouse
 Cat. No.: GP20239
 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; D130055P09Rik.		
Amino Acid Sequence	EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTHKKG RPRKGPKTRE NQQDVHFMKR YPKGQAELQK PFKYTTVTKR SRRIRPTHPG.		
Solubility	It is recommended to reconstitute the lyophilized FGF-18 in sterile 18M-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 heparin 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 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 21kDa. The FGF-18 is purified by proprietary chromatographic techniques.

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