
Product Data Sheet

Product Name: FGF5 Human
 Cat. No.: GP20221
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast Growth Factor 5; Heparin-Binding Growth Factor 5; Smag-82; HBGF-5; TCMGLY; FGF-5; FGF5.		
Amino Acid Sequence	MAWAHGEKRL APKGQGPAA TDRNPRGSSS RQSSSSAMSS SSASSSPAAS LGSQGSGLEQ SSFQWSPSGR RTGSLYCRVG IGFHLQIYPD GKVNGSHEAN MLSVLEIFAV SQGIVGIRGV FSNKFLAMSK KGKLHASAKF TDDCKFRERF QENSYNTYAS AIHRTEKTGR EWYVALNKRK KAKRGCSPRV KPQHISTHFL PRFKQSEQPE LSFTVTVPEK KKPPSPIKSK IPLSAPRKNT NSVKYRLKFR FG.		
Solubility	It is recommended to reconstitute the lyophilized FGF5 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF-5 protein was lyophilized from a 0.2µm filtered solution in 10mM sodium phosphate and 100mM sodium chloride pH 7.5.		

Introduction

Fibroblast Growth Factor-5 (FGF5) belongs to the FGF family of mitogenic peptides. In vitro, rhFGF5 is a mitogen for Balb/3T3 fibroblasts and bovine heart endothelial cells. FGF5 is also a major muscle-derived survival factor for cultured spinal motoneurons. In vivo, FGF5 is assumed to play central roles in both embryology and neurobiology. Developmentally, FGF5 mRNA is originally found in the embryoblast followed by the lateral somatic mesoderm, where it may play a part in angiogenesis, as well as the myotomes cranial to the tail region, where it may delay terminal myoblast differentiation during cell migration.

Stability

Lyophilized FGF5 although stable at room temperature for 3 weeks, should be stored

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

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desiccated below -18°C . Upon reconstitution FGF-5 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

FGF5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain having containing 252 amino acids and having a molecular mass of 27.7kDa. The FGF-5 is purified by proprietary chromatographic techniques.

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