
Product Data Sheet

Product Name: FGF 8 Human
 Cat. No.: GP20223
 Batch No.: 1

Product Data

Purity	Greater than 97.0% as determined by analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	FGF8B; FGF-8B; FGF8-B; KAL6; HBGF-8; HBGF8; AIGF; HBGF-8; MGC149376; fibroblast growth factor 8.		
Amino Acid Sequence	MQVTVQSSPN FTQHVREQLS VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHORE VHFMRRLPRG HHTTEQSLRF EFLNYPFTR SLRGSQRTWA PEPR.		
Solubility	It is recommended to reconstitute the lyophilized FGF 8 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing 5mM Na ₃ PO ₄ and 50mM NaCl, pH 7.5.		

Introduction

FGF8 is part of the fibroblast growth factor family. FGF family members have wide mitogenic and cell survival activities, and participate in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF8 supports androgen and anchorage independent growth of mammary tumor cells. FGF8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF8 functions as an embryonic epithelial factor. FGF8 takes part in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination.

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

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Biological Activity

The ED₅₀, as determined by its ability to induce proliferation of mouse 3T3 fibroblasts, is 5-7ng/ml, corresponding to a specific activity of 2x10⁵units/mg.

Stability

Lyophilized FGF 8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF 8 should be stored at 4°C between 2-7 days and for future use below -18°C.

Background

FGF 8 Human Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 194 amino acids and having a total molecular mass of 22.5kDa.

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