
Product Data Sheet

Product Name: FGF16 Human
 Cat. No.: GP20234
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fibroblast Growth Factor 16; Metacarpal 4-5 Fusion; FGF-16; MF4; FGF16.		
Amino Acid Sequence	AEVGGVFASL DWDLHGFSSS LGNVPLADSP GFLNERLGQI EGKLQRGSP DFAHLKGILR RRQLYCRTGF HLEIFPNGTV HGTRHDHSRF GILEFISLAV GLISIRGVDS GLYLGMNERG ELYGSKKLTR ECVFREQFEE NWyNTYASTL YKHSDSERQY YVALNKDGSP REGYRTKRHQ KFTHFLRPV DPSKLPMSR DLFHYR.		
Formulation	FGF-16 0.2µm filtered solution containing 20mM Tris-HCl, 1M NaCl, pH 9.0, 0.2% Tween-20 and 10% Glycerol.		

Introduction

Fibroblast growth factor 16 (FGF16) is a member of the large FGF family, whose members are heparin-binding growth factors with a core 120 amino acid (a.a.) FGF domain which allows for a common tertiary structure. Human FGF16 cDNA is a 207 aa precursor protein with one N-linked glycosylation site. FGF16 though lacking a typical signal peptide, is efficiently produced by mechanisms other than the classical protein secretion pathway. FGF16 is expressed in cardiac cells and is required for proper heart development. FGF16 gene mutation was also observed in individuals with metacarpal 4-5 fusion. FGF16 has an imperative role in the regulation of embryonic development, cell proliferation and cell differentiation, and is required for normal cardiomyocyte proliferation and heart development.

Biological Activity

The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

FGF16 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 206 amino acids and having a molecular mass of 23.6kDa. The FGF-16 is purified by proprietary chromatographic techniques.

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