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FGF16 Human

Fibroblast Growth Factor 16 Human Recombinant
GRF0090

Product Overview

Name	FGF16 Human
Description	
Fibroblast Growth Factor 16 Human Recombinant	
Accession (Primary)	O43320
Synonyms	
Fibroblast Growth Factor 16, Metacarpal 4-5 Fusion, FGF-16, MF4, FGF16.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless clear solution.	
Formulation	
FGF-16 0.2 µm filtered solution containing 20mM Tris-HCl, 1M NaCl, pH 9.0, 0.2% Tween-20 and 10% Glycerol.	
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.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AEVGGVFASL DWDLHGFSSS LGNVPLADSP GFLNERLGQI EGKLQRGSPT DFAHLKGILR RRQLYCRTGF HLEIFPNGTV HGTRHDHSRF GILEFISLAV GLISIRGVDS GLYLGMNERG ELYGSKKLTR ECVFREQFEE	

NWYNTYASTL YKHSDSERQY YVALNKDGSP REGYRTKRHQ KFTHFLPRPV DPSKLPSMSR DLFHYR.

Biological Activity

The ED 50 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 × 10 6 IU/mg.

Precautions

FGF16 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O43320)