9051 Mira Mesa Blvd, #910094
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FGF12 Human

Fibroblast Growth Factor 12 Human Recombinant
GRF0086

Product Overview

Name	FGF12 Human
Description	
Fibroblast Growth Factor 12 Human Recombinant	
Accession (Primary)	P61328
Synonyms	
FGF-12, FGF12, FGF12B, FHF1, Fibroblast growth factor 12, Fibroblast growth factor homologous factor 1, FHF-1, Myocyte-activating factor.	
Introduction	
FGF12 is part of the Fibroblast Growth Factor (FGF) family which has a vast mitogenic and cell survival functions, and play a role in a range of biological activities, among them are embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. FGF-12 doesn't obtain the N-terminal signal sequence present in the majority of the FGF family members, but it contains clusters of basic residues that act as a nuclear localization signal. When transfected into mammalian cells, FGF12 accumulated in the nucleus, but was not secreted. FGF12 is involved in nervous system development and function. FGF12 binds to IB2 (islet brain-2), a cellular kinase scaffold, and voltage gated sodium channels and is also involved in intracellular signalling and ion exchange.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH7.4 and 1mM DTT.	
Stability	
Lyophilized FGF12 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor 12 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles .	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTKDENSD YTLFNLIPVG LRVVAIQGVK ASLYVAMNGE GYLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ IMKGNRVKKT KPSSHFVPKP IEVCMYREQS LHEIGEKQGR SRKSSGTPTM NGGKVVNQDS T.

Biological Activity

Determined by FGF12 binding ability in a functional ELISA. Immobilized FGFR4/Fc Chimera at 5 μg/mL (100 μL/well) can bind FGF12 with a linear range of 1.6100 ng/mL.

Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor 12 in sterile 18MΩ-cm H 2 O not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FGF12 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P61328)