

Recombinant Human FGF12, His-tagged

Cat. No. FGF12-26554TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FGF12 isoform 2 with a N terminal His tag. 201 amino acids with a predicted MWt 22.6 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	181 amino acids
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. This growth factor lacks the N-terminal signal sequence present in most of the FGF family members, but it contains clusters of basic residues that have been demonstrated to act as a nuclear localization signal. When transfected into mammalian cells, this protein accumulated in the nucleus, but was not secreted. The specific function of this gene has not yet been determined. Two alternatively spliced transcript variants encoding distinct isoforms have been reported.
Conjugation	HIS
Molecular Weight	22.600kDa inclusive of tags
Tissue specificity	Brain, eye and testis; highly expressed in embryonic retina, olfactory epithelium,

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	olfactory bulb, and in a segmental pattern of the body wall; in adult olfactory bulb, less in cerebellum, deep cerebellar nuclei, cortex and multiple midbrain structures.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Constituents:0.32% Tris HCl, 0.02% DTT, 0.06% EDTA, 10% Glycerol
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSSHHHHHH SSGLVPRGSH MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTKDENS D YTLFNLIPVG LRVVAIQGVK ASLYVAMNGE YLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ IMKGNRVKKT KPSSHFPVKP IEVCMYREQS LHEIGEKQGR RKSSGTPTM NGGKVVNQDS T
Sequence Similarities	Belongs to the heparin-binding growth factors family.

GENE INFORMATION

Gene Name	FGF12 fibroblast growth factor 12 [Homo sapiens]
Official Symbol	FGF12
Synonyms	FGF12; fibroblast growth factor 12; FGF12B; FHF1; fibroblast growth factor 12B; fibroblast growth factor FGF 12b; fibroblast growth factor homologous factor 1; myocyte activating factor;
Gene ID	2257

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mRNA Refseq	NM_004113
Protein Refseq	NP_004104
MIM	601513
Uniprot ID	P61328
Chromosome Location	3q28
Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Melanoma, organism-specific biosystem; Melanoma, conserved biosystem; Pathways in cancer, organism-specific biosystem;
Function	NOT fibroblast growth factor receptor binding; growth factor activity; heparin binding;

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