

Active Recombinant Human FGF12 Protein (Met1-Thr181), C-His tagged, Animal-free, Carrier-free

Cat. No. FGF12-105H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF12 Protein (Met1-Thr181) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Met1-Thr181
Description	Fibroblast Growth Factors-12 (FGF-12) is a 20.4 kDa member of the fibroblast Growth Factors with 181 amino acid residues. FGF-12 is mainly expressed from inhibitory neurons, oligodendrocyte precursor cells, excitatory neurons, cardiomyocytes. Involved in nervous system development, function, and positive regulation of voltage-gated sodium channel activity. FGF-12 function in the development of the central and peripheral nervous systems, connective tissue of the skeleton, and the myocardia of the heart.
Form	Lyophilized
Bio-activity	Measure by its ability to induce 3T3 cells proliferation. The ED50 for this effect is < 2 ng/mL.
Molecular Mass	The protein has a calculated MW of 21.23 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

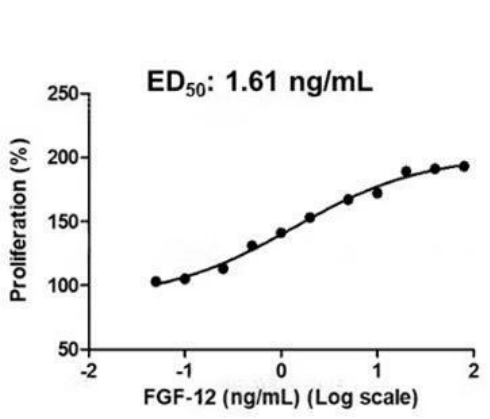
GENE INFORMATION

Gene Name	FGF12 fibroblast growth factor 12 [Homo sapiens (human)]
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; FHF-1; FGF-12; myocyte-activating factor; fibroblast growth factor FGF-12b;
Gene ID	2257

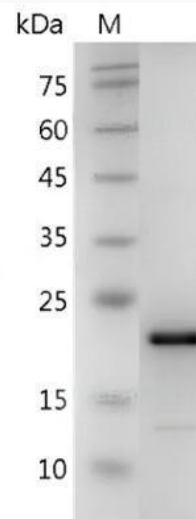
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mRNA Refseq	NM_004113																		
Protein Refseq	NP_004104																		
MIM	601513																		
UniProt ID	P61328																		
Activity	 ED₅₀: 1.61 ng/mL <table border="1"> <caption>Approximate data points from the proliferation curve</caption> <thead> <tr> <th>FGF-12 (ng/mL) (Log scale)</th> <th>Proliferation (%)</th> </tr> </thead> <tbody> <tr><td>-1.5</td><td>105</td></tr> <tr><td>-1.0</td><td>110</td></tr> <tr><td>-0.5</td><td>120</td></tr> <tr><td>0.0</td><td>140</td></tr> <tr><td>0.5</td><td>160</td></tr> <tr><td>1.0</td><td>180</td></tr> <tr><td>1.5</td><td>195</td></tr> <tr><td>2.0</td><td>200</td></tr> </tbody> </table> Human FGF-12, His Tag, E. coli (LDG077PHE) induced 3T3 cell proliferation, with the ED₅₀ at 1.61 ng/mL.	FGF-12 (ng/mL) (Log scale)	Proliferation (%)	-1.5	105	-1.0	110	-0.5	120	0.0	140	0.5	160	1.0	180	1.5	195	2.0	200
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**SDS-PAGE analysis
of recombinant
human FGF-12.**



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