

Recombinant Mouse Fgf15, His-tagged

Cat. No. Fgf15-499M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 203 AA. MW: 23.78 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Mouse
Source	E.coli
Description	Fibroblast growth factor 19 is a protein that in humans is encoded by the FGF19 gene. 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 is a high affinity, heparin dependent ligand for FGFR4. Expression of this gene was detected only in fetal but not adult brain tissue. Synergistic interaction of the chick homolog and Wnt-8c has been shown to be required for initiation of inner ear development.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 20mM NaCl, PH 8.0.
Research topic	Energy metabolism and body weight regulation
Purity	>90%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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Applications	ELISA, Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; LAL to determine quantity of endotoxin
Sequences of amino acids	MKHHHHHHAS RPLAQQSQSV SDEDPLFLYG WGKITRLQYL YSAGPYVSNC FLRIRSDGSV DCEEDQNERN LLEFRAVALK TIAIKDVSSV RYLCMSADGK IYGLIRYSEE DCTFREEMDC LGYNQYRSMK HHLHIIFIQA KPREQQLDQK PSNFIPVFHR SFFETGDQLR SKMFSLPLES DSMDPFRMVE DVDHLVKSPS FQK
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	Fgf15 fibroblast growth factor 15 [Mus musculus]
Official Symbol	Fgf15
Synonyms	Fgf15; fibroblast growth factor 15; FGF19; FGF-15
Gene ID	14170
mRNA Refseq	NM_008003
Protein Refseq	NP_032029
Pathway	Downstream signaling of activated FGFR; ESC Pluripotency Pathways; FGFR ligand

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binding and activation; FGFR1 ligand binding and activation; FGFR1b ligand binding and activation; FGFR1c and Klotho ligand binding and activation; FGFR2b ligand binding and activation; FRS2-mediated cascade; IRS-related events; MAPK signaling pathway; PI-3K cascade; Pathways in cancer; Regulation of actin cytoskeleton; Signaling by FGFR; Signaling by Insulin receptor; Insulin receptor signalling cascade

Function

fibroblast growth factor receptor binding; growth factor activity

ProteinFGF19 PDB
1pwa

