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FGF-21, murine recombinant protein

FGF21, Fibroblast growth factor 21, FGFL
Catalog # PBV10075r

Specification

FGF-21, murine recombinant protein - Product info

Primary Accession	Q9JJN1
Calculated MW	**20.1 kDa KDa**

FGF-21, murine recombinant protein - Additional Info

Gene ID	**56636**
Gene Symbol	**FGF-21**

Other Names
FGF21, Fibroblast growth factor 21, FGFL, UNQ3115/PRO10196

Gene Source	**Mouse**
Source	**E. coli**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**HPLC; ≥95%**
Recombinant	**Yes**
Sequence	**MAYPIPDSSPLLQFGGQVRQRYLYTDDDQDTE AHLEIREDGTVVGAAHRSPESLLELKALKPGVIQ ILGVKASRFLCQQPDGALYGSPHFDPEACSFRE LLLEDGYNVYQSEAHGLPLRLPQKDSPNQDAT SWGPVRFLPMPGLLHEPQDQAGFLPPEPPDVG SSDPLSMVEPLQGRSPSYAS**

Target/Specificity
FGF-21

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile H_2O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

Format
Lyophilized protein

Storage
-20°C; Lyophilized from filtered (0.4 mm) solution containing 20 mM Tris, pH 7.4 and 20 mM NaCl

FGF-21, murine recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FGF-21, murine recombinant protein - Images

FGF-21, murine recombinant protein - Background

The FGFs are a family of more than 20 small (~17–26 kDa) secreted peptides. The initial characterization of these proteins focused on their ability to stimulate fibroblast proliferation. FGFs modulate cellular activity via at least 5 distinct subfamilies of high-affinity FGF receptors (FGFRs): FGFR-1, -2, -3, and -4, all with intrinsic tyrosine kinase activity and, except for FGFR-4, multiple splice isoforms, and FGFR-5, which lacks an intracellular kinase domain. There is growing evidence that FGFRs can be important for regulation of glucose and lipid homeostasis. FGFR-2 appears to be a key molecule during pancreatic development and FGFR-4 has been implicated in cholesterol metabolism and bile acid synthesis. FGF-21 is preferentially expressed in liver, but an exact knowledge of FGF-21 bioactivity and its mode of action have been lacking to date. FGF-21 is a potent activator of glucose uptake on adipocytes, protects animals from diet-induced obesity when overexpressed in transgenic mice, and lowers blood glucose and triglyceride levels when therapeutically administered to diabetic rodents. Fibroblast Growth Factor-21 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 183 amino acids including N-terminal Methionine and having a molecular mass of 20.1 kDa. The amino acid sequence of the recombinant mouse FGF21 is 100% homologous to the amino acid sequence of the mouse FGF21 without signal sequence.
The FGF-21 is purified by proprietary chromatographic techniques.

FGF-21, murine recombinant protein - References

Nishimura T.,et al.Biochim. Biophys. Acta 1492:203-206(2000).
Carninci P.,et al.Science 309:1559-1563(2005).
Kharitonenkov A.,et al.J. Clin. Invest. 115:1627-1635(2005).