

Recombinant Mouse FGF-18 Protein

Catalog No.: RP03510

Sequence Information

Species **Gene ID**
Mouse 14172

Swiss Prot **Tags**
O89101 C-His

Synonyms

Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18

Product Information

Source **Purification**
HEK293 Cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
22.5 kDa 30-35 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from sterile 20 mM Mes, 500 mM NaCl, 1 mM EDTA, pH 6.6. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution

Background

Recombinant Mouse FGF-18 Protein 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. It has been shown in vitro that FGF18 is able to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. FGF18 appears to regulate cell proliferation and differentiation positively in osteogenesis and negatively in chondrogenesis.

Basic Information

Description

Recombinant Mouse FGF-18 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Gly 207) of Mouse FGF-18 (Accession #NP_032031.1) fused with His at the C-terminus.

Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized mouse FGF18 at 10 μg/mL (100 μl/well) can bind Rat FGFR4, The EC50 of Rat FGFR4 is 0.44 μg/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

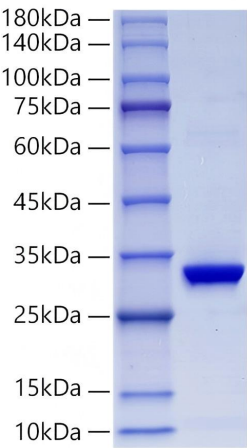
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Validation Data



Recombinant Mouse FGF-18 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.