

RP00064

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Recombinant Human FGF-12 Protein

Catalog No.: RP00064

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	2257	P61328

Tags

C-His

Synonyms

FGF12;EIEE47;FGF12B;FHF1

Product Information

Source

<I>E. coli</I>

Purification

> 97% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, 1mM DTT, 300mM NaCl, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The 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. 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.

Basic Information

Description

Recombinant Human FGF-12 Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Met1-Thr181) of human FGF-12 (Accession #NP_004104.3) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human FGFR4 at 5 μg/mL (100 μL/well) can bind recombinant human FGF12 with a linear range of 35-100 ng/mL.

Storage

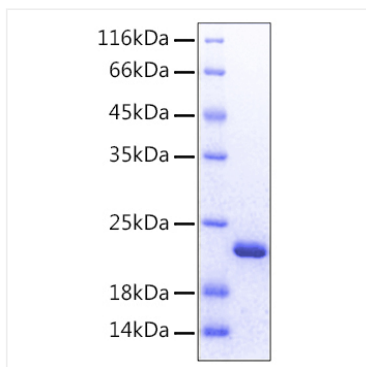
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

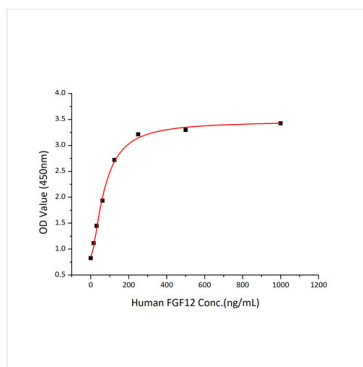


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Validation Data



Recombinant Human FGF-12 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 20 kDa.



Immobilized recombinant human FGFR4 at 5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind recombinant human FGF12 with a linear range of 35-100 ng/mL.