Human FGF-21 Protein, His Tag

Catalog # FG1-H5243

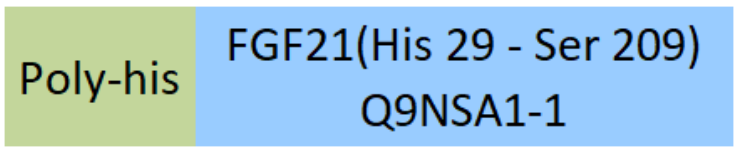
Synonym

FGF-21, FGF21

Source

Human FGF-21, His Tag(FG1-H5243) is expressed from human 293 cells (HEK293). It contains AA His 29 - Ser 209 (Accession # Q9NSA1-1). Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 21.3 kDa. The protein migrates as 25-28 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

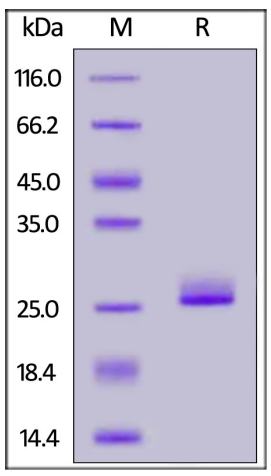
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human FGF-21, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Fibroblast growth factor 21 (FGF21), which stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression. FGF21 has been shown to protect animals from diet-induced obesity when overexpressed in transgenic mice. It also lowers blood glucose and triglyceride levels when administered to diabetic rodents, suggesting it may exhibit the therapeutic characteristics necessary for effective treatment of diabetes. Treatment of

animals with FGF21 results in increased energy expenditure, fat utilisation and lipid excretion. FGF21 is most abundantly expressed in the liver, and also expressed in the thymus at lower levels.