

Recombinant Human Fibroblast Growth Factor 21 (Human FGF-21)

Product Information

Product Name	Cat#	Size
Recombinant Human Fibroblast Growth Factor 21 (Human FGF-21)	91312ES08	5 µg
	91312ES60	100 µg
	91312ES76	500 µg

Product Description

Fibroblast growth factor-21 (FGF-21) belongs to the large FGF family which is encoded by the FGF-21 gene. Mature human FGF-21 shows 81% aa identity to mouse FGF-21, and is known to be active on mouse cells. The c-DNA for FGF-21 predicts a 209 aa polypeptide that contains a 28 aa signal sequence and a 181 aa mature region. FGF21 is a metabolic regulator that provides efficient and durable glycemic and lipid control in various animal models. And the FGF21 is a liver-derived endocrine factor that stimulates glucose uptake in adipocytes. Pharmacologic studies show that FGF21 has broad metabolic actions in obese rodents and primates that include enhancing insulin sensitivity, decreasing triglyceride concentrations, and causing weight loss.

Product Properties

Synonyms	FGF21, FGF-21, fibroblast growth factor 21
Accession	Q9NSA1
GeneID	26291
Source	E.coli-derived human FGF-21 protein, His29-Ser209.
Molecular Weight	Approximately 19.4 kDa.
AA Sequence	HPIPDSSPLL QFGGQVRQRY LYTDDAQQTE AHLEIREDGT VGGAADQSPE SLLQLKALKP GVIQILGVKT SRFLCQRPDG ALYGLSHFDP EACSFRELLL EDGYNVYQSE AHGLPLHLPG NKSPHRDPAP RGPAPFLPLP GLPPALPEPP GILAPQPPDV GSSDPLSMVG PSQGRSPSYA S
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>96% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 µg/ml, corresponding to a specific activity of > 2.0 × 10 ³ IU/mg in the presence of 5 µg/ml of recombinant mouse Klotho-β and 10 µg/ml of heparin. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!