

Recombinant Human Fibroblast Growth Factor-21 (rhFGF-21) Catalog Number: 104-21

Description	Fibroblast growth factor 21 (FGF-21) belongs to the large FGF family which has at least 23 members. However, FGF-21, along with FGF-19 and FGF-23, belongs to a subfamily of atypical FGFs where it lacks a conventional heparin-binding motif. In the presence of β Klotho as a cofactor, FGF-21 signals via the FGFR1c and 4 receptors to induce glucose uptake by adipocytes. This novel metabolic regulator acts as an endocrine hormone and is predominantly produced in liver upon the induction of peroxisome proliferator-activator receptors, PPAR α and PPAR γ .
Synonyms	FGF21
AA Sequence	MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESLLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSY AS
Source	Escherichia coli
Molecular Weight	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED_{50} is 0.06-0.4ug/ml in the presence of β Klotho and Heparin, as determined by proliferation of BaF3 cells.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin	$< 1 EU/\mu g$ of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.