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, PPARα and PPARγ.
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	< 1EU/μg 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 *in vitro* diagnostic procedures.