



Recombinant Protein Technical Manual

Recombinant Human FGF21 Protein (His Tag)

RPES5196

Product Data:

Product SKU: RPES5196

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: NP_061986.1

Protein Information:

Molecular Mass: 20.2 kDa

AP Molecular Mass: 23 kDa

Tag: N-His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from 50 mM Tris, 10 % glycerol, 0.05 % Brij 35, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fibroblast Growth Factor 21; FGF-21; FGF21

Immunogen Information:

Sequence: His 29-Ser 209

Background:

Fibroblast growth factor 21 (FGF21) 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. FGF-21 has a hydrophobic amino terminus, which is a typical signal sequence, and appears to be a secreted protein. The metabolic regulator fibroblast growth factor 21 (FGF21) has antidiabetic properties in animal models of diabetes and obesity. FGF21 is a novel adipokine associated with obesity-related metabolic complications in humans. The paradoxical increase of serum FGF21 in obese individuals, which may be explained by a compensatory response or resistance to FGF21, warrants further investigation. FGF-21, which we have identified as a novel metabolic factor, exhibits the therapeutic characteristics necessary for an effective treatment of diabetes.