

# Growth Factor Data Sheet

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FGF21 is a member of the Fibroblast Growth Factor family of proteins. It is in the same endocrine signaling subfamily as FGF19 and FGF23. FGF21 is a heparin-binding ligand for FGFR1c and FGFR4 that requires the presence of beta-klotho. Expression of FGF21 mRNA has been observed in the liver, the thymus, and several types of adipose tissue. It has been shown to stimulate glucose incorporation in differentiated adipocytes, independent of insulin activity. It has been suggested that FGF21 also acts as key regulator in the adaptation to stress.

<b>Catalog Number</b>	<b>1140-21</b>
<b>Product Name</b>	<b>FGF21, Human</b> Recombinant Human Fibroblast Growth Factor 21 FGF-21
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~19.4 kDa (181 amino acids)
<b>Sequence</b>	HPIPDSSPLL QFGGQVRQRY LYTDDAQQTE AHLEIREDGT VGGAADQSPE SLLQLKALKP GVIQILGVKT SRFLCQRPDG ALYGSLHFDP EACSFRELL EDGYNVYQSE AHGLPLHLPG NKSPHRDPAP RGPAPFLPLP GLPPALPEPP GILAPQPPDV GSSDPLSMVG PSQGRSPSYA S
<b>Accession Number</b>	<a href="#">Q9NSA1</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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 <sup>3</sup> IU/mg in the presence of 5 µg/ml of rMuKlotho-β and 10 µg/ml of heparin.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.