

Fgf21

Recombinant Rat Fibroblast Growth Factor-21

Catalog No.	CS504A CS504B CS504C	Quantity:	5 µg 25 µg 1 mg
Alternate Names:	FGF-21		
Description:	<p>Fibroblast growth factor 21 (FGF-21) encoded by the FGF-21 gene belongs to the large FGF family and it is specifically induced by HMGCS2 activity. In mice, brown adipose tissue becomes a source of systemic FGF-21 after cold exposure. FGF-21 stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression) and the activity depends on the presence of KLB. Recombinant rat FGF-21 contains 180 amino acids residues and show limited binding to heparin. In addition, rat FGF-21 respectively shows 81 % and 92 % a.a. identity to human and mouse FGF-21, and it show activity on mouse and human cells.</p> <p>Recombinant Rat FGF-21 is a single non-glycosylated polypeptide chain containing 180 amino acids.</p>		
Gene ID:	170580		
Source:	<i>E. coli</i>		
Molecular Weight:	19.7		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS + 500 mM NaCl, pH 7.4.		
Purity:	>95 % by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a cell proliferation assay using mouse NIH/3T3 cells is less than 700 ng/ml.		
Specific Activity:	>1.4 × 10E3 IU/mg in the presence of 5 µg/ml of recombinant mouse Klotho-beta.		
Amino Acid Sequence:	AYPISDSSPL LQFGGQVRQR YLYTDDDQDT EAHLEIREDG TVVGT AHRSP ESLLELKALK PGVIQILGVK ASRFLCQQPD GTLYGSPHFD PEACSFRELL KDGYNVYQS EAHGLPLRLP QKDSQDPATR GPVRFPLPMPG LPHEPQEQPG VLPPEPPDVG SSDPLSMVEP LQGRSPSYAS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. <p>Avoid repeated freeze/thaw cycles.</p>		

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