Active Recombinant Rat Fgf21 protein, His-tagged

Cat. No. Fgf21-1490R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Fgf21 protein(Q8VI80)(25-208 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	25-208 aa
Form	100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast growth factor 21 (FGF21) is a member of the fibroblast growth factor (FGF) family and specifically a member of the endocrine subfamily which includes FGF23 and FGF15/19. 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. FGF21 action through one of the FGF21 receptors thus requires interaction with a co-receptor, designated β-klotho. Besides, Fibroblast Growth Factor Receptor 1 (FGFR1) has been identified as an interactor of FGF21, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat FGF21 and recombinant rat FGFR1. Briefly, FGF21 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to FGFR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h

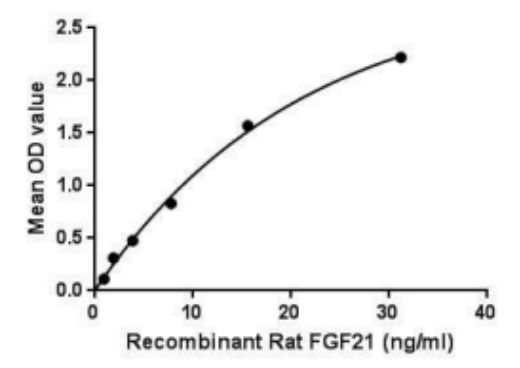
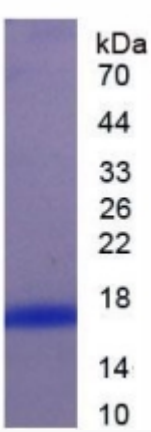
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	with anti-FGF21 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of FGF21 and FGFR1 was shown, and this effect was in a dose dependent manner.
Molecular Mass	23.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 100mM NaHCO3, 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Fgf21 fibroblast growth factor 21 [Rattus norvegicus]
Official Symbol	Fgf21
Synonyms	FGF21; fibroblast growth factor 21;
Gene ID	170580
mRNA Refseq	NM_130752

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Protein Refseq	NP_570108
Activity	
SDS-PAGE	

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