

Active Recombinant Human FGF19 protein, His-tagged

Cat. No. FGF19-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF19 protein(O95750)(25-216 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	25-216 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast Growth Factor 19 (FGF19) is a member of the fibroblast growth factor (FGF) family. FGF19 has important roles as a hormone produced in the ileum in response to bile acid absorption, regulates new bile acid synthesis, acting through the FGFR4/Klotho-β receptor complexes in the liver to inhibit CYP7A1. FGF19 also has metabolic effects, affecting glucose and lipid metabolism. Besides, Fibroblast Growth Factor Receptor 1 (FGFR4) has been identified as an interactor of FGF19, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF19 and recombinant human FGFR4. Briefly, FGFR4 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μwere then transferred to FGF19-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGFR4 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

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37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of FGF19 and FGFR4 was shown, and this effect was in a dose dependent manner, the EC50 was approximately 0.016 ug/mL.

Molecular Mass	23.0kDa
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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FGF19 fibroblast growth factor 19 [Homo sapiens]
Official Symbol	FGF19
Synonyms	FGF19; fibroblast growth factor 19; FGF-19;
Gene ID	9965
mRNA Refseq	NM_005117
Protein Refseq	NP_005108
MIM	603891

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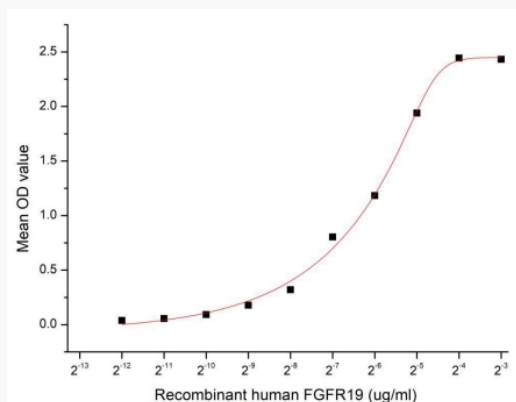
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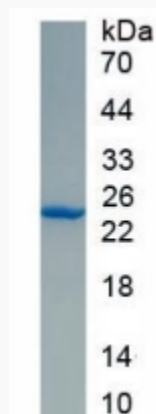
UniProt ID

O95750

Activity



SDS-PAGE



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