

Active Recombinant Human FGF19 protein, His-tagged

Cat. No. FGF19-1485H 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 E.coli.

Species Human

Source E.coli

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. FGFs are heparin-binding growth factors with a core 120 amino acid (aa) FGF domain that allows for a common tertiary structure. In general, FGFs are expressed during embryonic development and in restricted adult tissues. Human FGF-19 cDNA predicts a 251 aa precursor protein with a 22 aa signal peptide and a 229 aa secreted mature protein with no potential N-linked glycosylation sites. FGF19-FGFR1 is one of paired transcripts mediating the dialogues between extraembryonic membrane and endometrium. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGF19 and recombinant human FGFR1. Briefly, FGF19 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µwere then transferred to FGFR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGF19 pAb, then aspirated and washed 3 times. After incubation with HRP

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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 50 µ stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human FGF19 and recombinant human FGFR1 was shown, the EC50 for this effect is 3.83 ug/mL.

Molecular Mass	25.1kDa
Endotoxin	0.25eu/µg~0.5eu/µg (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

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MIM	603891
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UniProt ID	O95750
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