

Active Recombinant Human FGF20 protein, His-tagged

Cat. No. FGF20-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF20 protein(Q9NP95)(1-211 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-211 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast growth factor 20 (FGF20) is a member of the fibroblast growth factor family. The fibroblast growth factors 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. It is identified that Fibroblast Growth Factor 20 (FGF20)-FGF receptor 1 (FGFR1) signaling is essential for cochlear hair cell (HC) and supporting cell (SC) differentiation. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGF20 and recombinant human FGFR1. Briefly, FGF20 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FGFR1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGF20 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate

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solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human FGF20 and recombinant human FGFR1 was shown, the EC50 for this effect is 0.17 ug/mL.

Molecular Mass	27.2kDa
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	FGF20 fibroblast growth factor 20 [Homo sapiens]
Official Symbol	FGF20
Synonyms	FGF20; fibroblast growth factor 20; FGF-20;
Gene ID	26281
mRNA Refseq	NM_019851
Protein Refseq	NP_062825

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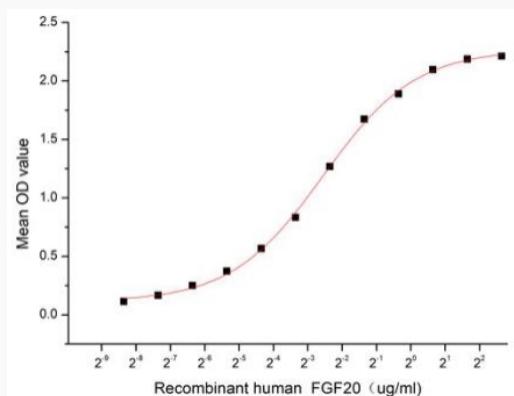
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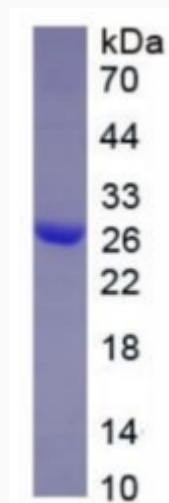
MIM 605558

UniProt ID Q9NP95

Activity



SDS-PAGE



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