

Active Recombinant Human FGF2 protein, His-tagged

Cat. No. FGF2-2784H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF2 protein(P09038)(159~288 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	159-288 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Basic fibroblast growth factor (FGF2), also known as bFGF, is a member of a large family of structurally related heparin-binding proteins (the FGFs) involved in the regulation of cell proliferation, growth and differentiation. It involved in many biological processes including angiogenesis, embryonic development and wound healing. Additionally, FGF2 is a critical component of human embryonic stem cell culture medium. Fibroblast growth factor receptor 4 (FGFR4) is a tyrosine kinase receptor for FGF2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGF2 and recombinant human FGFR4. Briefly, biotin-linked FGF2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGFR4-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of

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substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human FGF2 and recombinant human FGFR4 was shown, and this effect was in a dose dependent manner.

Molecular Mass	16.4kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. 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	FGF2 fibroblast growth factor 2 (basic) [Homo sapiens]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF; BFGF; FGF-2; HBGF-2;
Gene ID	2247
mRNA Refseq	NM_002006

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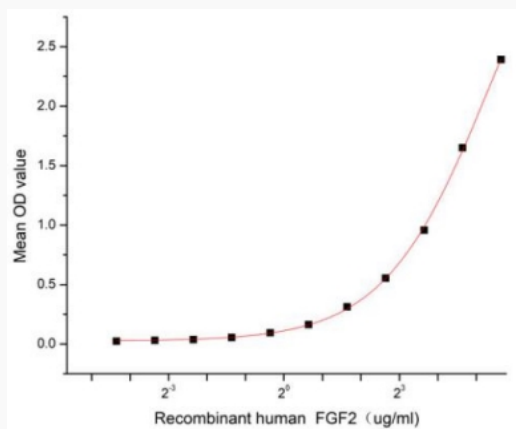
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Protein Refseq NP_001997

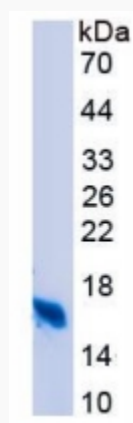
MIM 134920

UniProt ID P09038

Activity



SDS-PAGE



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