

Active Recombinant Human FGF8 protein, His-tagged

Cat. No. FGF8-1500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF8 protein(P55075)(23-233 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	23-233 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	FGF8 is a heparin binding growth factor belonging to the FGF family, which plays a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. Alternate splicing of mouse FGF8 mRNA generates eight secreted isoforms, designated a - h. Only FGF-8a, b, e and f exist in humans. FGF8 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration, and it is required for normal brain, eye, ear and limb development during embryogenesis. FGFR2c, 3c and FGFR4 can be activated by several FGF8 isoforms, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF8 and recombinant human FGFR4. Briefly, biotin-linked FGF8 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl 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,

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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then wells were aspirated and washed 5 times. With the addition of 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 FGF-8 and FGFR4 was shown, the EC50 for this effect is 7.94 ug/mL.

Molecular Mass	27.7kDa
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	FGF8 fibroblast growth factor 8 (androgen-induced) [Homo sapiens]
Official Symbol	FGF8
Synonyms	FGF8; fibroblast growth factor 8 (androgen-induced); fibroblast growth factor 8; AIGF; androgen-induced growth factor; heparin-binding growth factor 8; KAL6; FGF-8; HBGF-8; MGC149376;
Gene ID	2253
mRNA Refseq	NM_001206389

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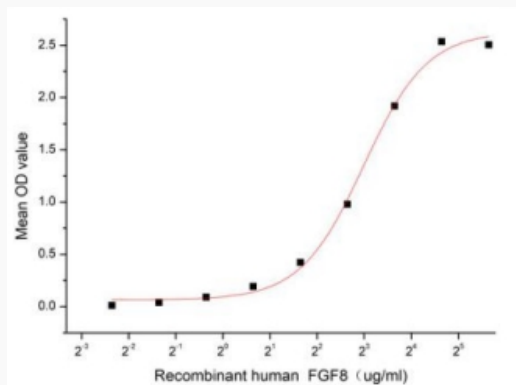
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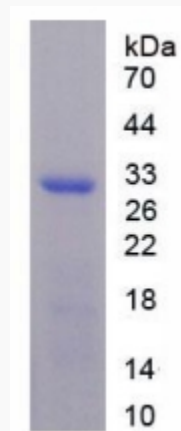
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UniProt ID P55075

Activity



SDS-PAGE



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