IMMUNOLOGICAL SCIENCES Product Data Sheet

PP-10077 **Recombinant Human FGF-2/bFGF Protein**

Size: 100 ug

Species: Human

Tags: No tag

Source Purification: <I>E. coli</I>

Endotoxin: < 1.0 EU/μg of the protein by LAL method.

Description: Recombinant Human FGF-2/bFGF Protein is produced by E. coli expression system. The target protein is expressed with sequence (Pro143-Ser288) of human FGF2.

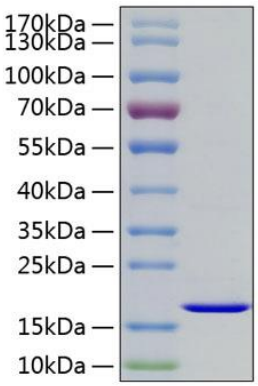
Bio-Activity: 1.Measured by its binding ability in a functional ELISA. Immobilized Human FGF2 at 0.5 μg/mL (100 μL/well) can bind Human GPC3 with a linear range of 7-20 ng/mL.|2.Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED₅₀ for this effect is typically 0.635-2.54 ng/mL, corresponding to a specific activity of 3.94 × 10⁵~1.57 × 10⁶ units/mg.|3.Recombinant Human VEGFA(40 ng/mL,)and bFGF(50 ng/mL) induce mesoderm cells to differentiate into hematopoietic stem and progenitor cells. After 4 days induction, pebbly-like CD43+ hematopoietic stem and progenitor cells appeared in the hematogenic endothelium.|4.The primary neural stem cells were cultured with 20 ng/mL bFGF and observed every 24 h. Results showed that the particle size of the suspended neural stem cells gradually increased.

Synonyms: BFGF; FGF-2; FGFB;HBGF-2;FGF2;FGF-2;FGFB;HBGF-2;Basic FGF; BFGF; fibroblast growth factor 2

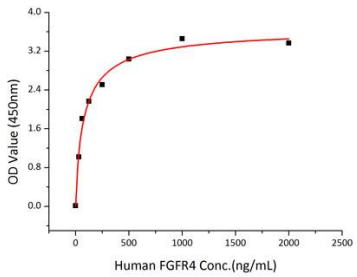
Formulation: Lyophilized from a 0.22 μm filtered solution of 20mM Tris，150 mM NaCl,pH7.5.Contact us for customized product form or formulation.

Reconstitution: Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

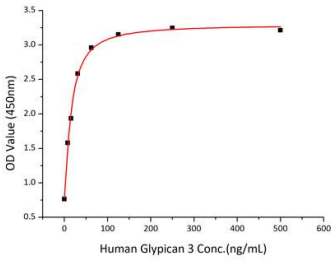
Storage: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles



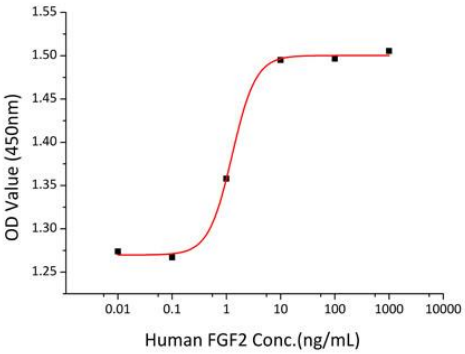
Recombinant Human FGF-2/bFGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 17 kDa.



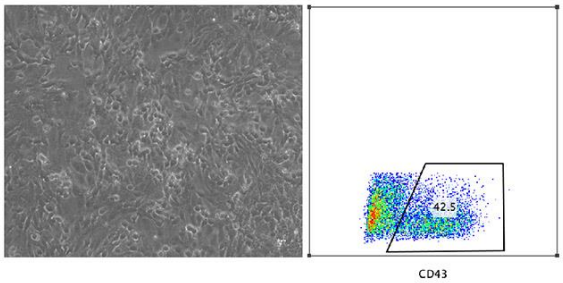
Immobilized recombinant human FGF2 at 1 μg/mL (100 μL/well) can bind recombinant human FGFR4 with a linear range of 30-125 ng/mL.



Immobilized Human FGF2 at 0.5 μg/mL (100 μL/well) can bind Human GPC3 with a linear range of 7-20ng/mL.



Recombinant Human FGF-2 promotes the proliferation of BALB/c 3T3 mouse embryonic fibroblasts cells. The ED50 for this effect is typically 0.635-2.54ng/mL.



Recombinant Human VEGFA(40 ng/mL, and bFGF(50 ng/mL) induce mesoderm cells to differentiate into hematopoietic stem and progenitor cells. After 4 days induction, pebbly-like CD43+ hematopoietic stem and progenitor cells appeared in the hematogenic endothelium.