

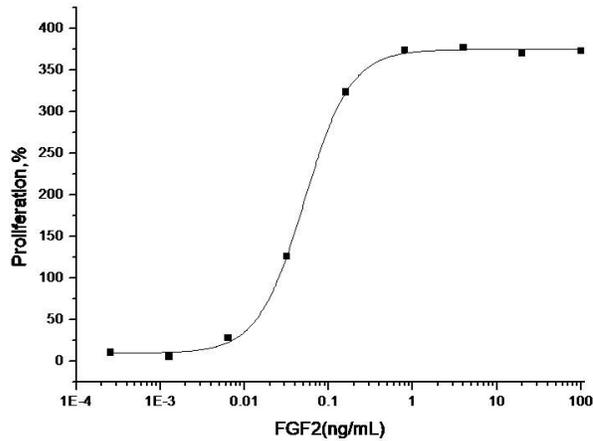
## FGF2

### Recombinant Human bFGF / FGF2

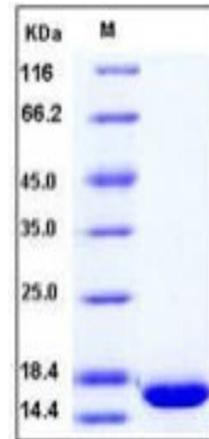
|                                 |   |                  |                                    |
|---------------------------------|---|------------------|------------------------------------|
| <b>Catalog No.</b>              | CRH377A<br>CRH377B<br>CRH377C<br>CRH377D  | <b>Quantity:</b> | 10 µg<br>50 µg<br>1.0 mg<br>100 µg |
| <b>Alternate Names:</b>         | Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2  |                  |                                    |
| <b>Description:</b>             | Basic fibroblast growth factor (bFGF), also known as FGF2, is a member of the fibroblast growth factor (FGF) family. It is a highly specific chemotactic and mitogenic factor for many cell types, appears to be involved in remodeling damaged tissue, such as ulcer healing, vascular repair, traumatic brain injury (TBI). bFGF is a critical component of human embryonic stem cell culture medium. In addition, bFGF protein is a heparin-binding cationic protein involved in a variety of pathological conditions including angiogenesis and solid tumour growth. Thus, bFGF is regarded as a target for cancers chemopreventive and therapeutic strategies. |                  |                                    |
| <b>UniProt ID:</b>              | P09038  |                  |                                    |
| <b>Accession Number:</b>        | NP_001997.5   |                  |                                    |
| <b>Protein Construction:</b>    | A DNA sequence encoding the mature form of human bFGF (NP_001997.5) (Pro 143-Ser 288) was expressed, with an additional Met at the N-terminus.  |                  |                                    |
| <b>Source:</b>                  | E. coli   |                  |                                    |
| <b>Molecular Weight:</b>        | The recombinant human bFGF consists of 147 amino acids and predicts a molecular mass of 16.5 kDa.   |                  |                                    |
| <b>Formulation:</b>             | Lyophilized from sterile 20mM Tris, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.  |                  |                                    |
| <b>Purity:</b>                  | > 95 % as determined by SDS-PAGE.   |                  |                                    |
| <b>Endotoxin Level:</b>         | < 1.0 EU per µg protein as determined by the LAL method   |                  |                                    |
| <b>Biological Activity:</b>     | Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.02-0.1 ng/ml.  |                  |                                    |
| <b>Predicted N-terminal:</b>    | Met   |                  |                                    |
| <b>Reconstitution:</b>          | <b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.<br><b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.   |                  |                                    |
| <b>Storage &amp; Stability:</b> | Stable for up to 1 year from date of receipt at -20°C to -80°C<br>After reconstitution, store working aliquots at -20°C to -80°C.<br><b>Avoid repeated freeze-thaw cycles.</b>  |                  |                                    |



Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.02-0.1 ng/ml.



SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**