

Recombinant Rat bFGF/FGF-2 Protein

Product Information

Product Name	Cat#	Size
Recombinant Rat bFGF/FGF-2 Protein	91324ES10	10 μg
	91324ES60	100 μg
	91324ES76	500 μg

Product Description

FGF basic, also known as FGF-2 and HBGF-2, is a member of the FGF superfamily of mitogenic proteins which show 35-60% amino acid conservation. Human FGF acidic shares 54% amino acid (aa) sequence identity with FGF basic and 17%-33% with other human FGFs. It shares 92%, 96%, 96%, and 96% as sequence identity with bovine, mouse, porcine, and rat FG F acidic, respectively, and exhibits considerable species crossreactivity. Alternate splicing generates a truncated isoform of human FG F acidic that consists of the Nterminal 40% of themolecule and functions as a receptor antagonist. The effects of androgen and FGF-2 could be partly reversed with a specific anti-FGF-2 immunoglobulin G or by suramin, which inhibits binding of FGFs to their high affinity receptors. Additionally, bFGF is frequently used for a critical component of cell culture medium, human embryonic stem cell culture medium, serum-free culture systems.

Product Properties

bFGF, FGF basic, FGF2, FGF-2, fibroblast growth factor 2 (basic), HBGF-2, Prostatropin	
P13109	
54250	
E.coli-derived rat FGF, Pro10-Ser154, with an N-terminal Met.	
Approximately 16.4 kDa.	
MPALPEDGGG AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER	
GVVSIKGVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR	
TGQYKLGSKT GPGQKAILFL PMSAKS	
None	
Sterile Filtered White lyophilized (freeze-dried) powder.	
>98% by SDS-PAGE and HPLC analyses.	
The ED ₅₀ as determined by a cell proliferation assay using murine balb/c 3T3 cells is less than 0.2 ng/mL,	
iological Activity corresponding to a specific activity of $> 5.0 \times 10^6$ IU/mg. Fully biologically active when compared	
standard.	
< 1.0 EU per 1µg of the protein by the LAL method.	
Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the	
Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0	
mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further	
dilutions should be made in appropriate buffered solutions.	

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

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3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only.

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