Product Sheet

Basic FGF (FGF-2), human recombinant

Catalog # bFGF-050; bFGF-250; bFGF-1000

Description The human Basic Fibroblast Growth Factor (bFGF) or FGF-2 is a growth factor important to maintaining pluripotency of many types of stem cells, as well as several other cellular processes such as proliferation.

StemRD produces bFGF in *Escherichia coli* as a single chain, non-glycosylated, polypeptide containing 155 amino acids with a molecular mass of 17.2 kDa. This 155 amino-acid form of bFGF retains full biological activity.

This product is suitable for tissue culture uses.

Source *Escherichia coli*. Endotoxin level of this product is lower than 0.1 EU/ug.

Formulation Lyophilized from sterile filtered PBS solution, carrier-free.

Reconstitution Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. It is recommended to reconstitute the lyophilized product in sterile water to no less than 100ug/ml. Further dilutions should be made in sterile buffer or medium containing carrier proteins, such as albumin or serum.

Stability The lyophilized protein is stable for at least 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 2 week at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze/thaw.

Purity Greater than 95% by SDS-PAGE analysis

Biological Activity The activity was determined by ERK kinase activation in human fibroblasts. The EC50 ranges from 0.1 – 1.0 ng/ml.

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