

## Product Information

### Recombinant Human FGF2

|                |       |              |  |
|----------------|-------|--------------|--|
| Catalog Number | MDFGF | Packing Size | 10 ug<br>50 ug<br>100 ug<br>500 ug<br>1 mg |
|----------------|-------|--------------|--|

## Description

Basic Fibroblast Growth Factor is found in almost all tissues of mesodermal and neuroectodermal origin and also in tumors derived from these tissues. Endothelial cells produce large amounts of this factor. Some bFGF is associated with the extracellular matrix of the subendothelial cells. Many cells express bFGF only transiently and store it in a biologically inactive form. The mechanism by which the factor is released by the cells is not known. It is released after tissue injuries and during inflammatory processes. FGF receptors are encoded by a gene family consisting of at least four receptor tyrosine kinases that transduce signals important in a variety of developmental and physiological processes related to cell growth and differentiation. bFGF stimulates the growth of fibroblasts, myoblasts, osteoblasts, neuronal cells, endothelial cells, keratinocytes, chondrocytes, and many other cell types.

## Product Details

|                            |   |
|----------------------------|---|
| <b>Alternative Names</b>   | bFGF, Fibroblast growth factor 2, FGF-2, Heparin-binding growth factor 2, HBGF-2<br>Recombinant Human Basic Fibroblast Growth Factor (FGF2)   |
| <b>Gene Symbol</b>         | FGF2  |
| <b>Source</b>              | <i>E. coli</i>  |
| <b>Appearance</b>          | Lyophilized Powder  |
| <b>Molecular Weight</b>    | 17.0 kDa  |
| <b>Purity</b>              | >95% as determined by SDS-PAGE  |
| <b>Endotoxin Level</b>     | <1.0 EU/μg of recombinant protein as determined by the LAL method   |
| <b>Biological Activity</b> | The bioactivity was determined in a NIH/3T3 cell proliferation assay. The ED50 was in the range of 0.05 - 0.5 ng/ml.  |
| <b>Formulation</b>         | Lyophilized from a 0.2 μm filtered solution in PBS  |
| <b>Reconstitution</b>      | A quick spin of the vial followed by reconstitution in sterile distilled water to a concentration not less than 0.1 mg/mL is recommended. Please note, filter sterilization is a must following |

reconstitution. This solution can then be diluted into other buffers.

**Storage**

The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2° - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for use in humans. While iXCells Biotechnologies uses reasonable efforts to include accurate and up-to-date information on this product sheet, we make no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. iXCells Biotechnologies does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. iXCells Biotechnologies is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, iXCells Biotechnologies is not liable for damages arising from the misidentification or misrepresentation of cultures.

© iXCells Biotechnologies 2015. All rights reserved.