cellsciences.com

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity

FGF2

Recombinant Human Fibroblast Growth Factor 2, FGF2, Endotoxin Free

Catalog No.	CRO500A	**Quantity:**	10 µg
	CRO500B		50 µg
	CRO500C		100 µg

Alternate Names: FGF basic (146 aa), FGF-2, HBGF-2, Prostatropin

Description: Fibroblast Growth Factor 2 is a member of the FGF family heparin-binding multifunctional proteins. These proteins play a role in wound healing, angiogenesis, and embryonic development, during pre- and post-natal growth and regeneration of tissues, by promoting cellular proliferation and differentiation. FGF 2 is recognized as a critical component of human embryonic stem cell culture medium due to its vital role for cells to remain in an undifferentiated state. Recombinant human FGF 2 consists of 146 aa residues and a 10 aa His-tag at the N-terminus.

UniProtKB: P09038

Gene ID: 2247

Source: *Hordeum vulgare* (barley grain). Barley grain's proteolytic activity is almost 50 times less than *E. coli* or mammalian cells. Barley seed has no human or animal viral contaminants, which is ideal for stem cell culture and *in vitro* and *in vivo* studies.

Molecular Weight: 17.8 kD

Formulation: Lyophilized from a 0.2 µm sterile filtered solution of PBS, pH 7.2.

Purity: >95% by SDS-PAGE gel analysis.

Endotoxin Level: < 0.005 ng per µg of product (0.05 EU/µg) as measured by turbidimetric kinetic assay.

Biological Activity: ED_{50}< 0.4 ng/ml. Bioactivity was determined by dose dependent effect on proliferation of 3T3 cells.

Specific Activity: > 2.5 x 10^6 U/mg

Reconstitution: **Centrifuge vial prior to opening**. It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please note that the addition of any carrier protein into this product may introduce endotoxin. Depending upon the particular application employed, this may be undesirable.**

Storage & Stability: The lyophilized protein, though stable at room temperature for two weeks, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

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

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com