cellsciences.com

FGF4
Recombinant Human Fibroblast Growth Factor 4, Animal Free

Catalog No.	CRF003A-AF	**Quantity:**	5 µg
	CRF003B-AF		25 µg
	CRF003C-AF		1 mg
	CRF003D-AF		100 µg

Alternate Names: FGF-4, Heparin-binding growth factor 4, HBGF-4, Heparin secretory-transforming protein 1, HST, HST-1, HSTF1, Transforming protein KS3

Description: Fibroblast Growth Factor 4 (FGF-4) is a growth factor predominantly expressed during embryonic development, playing a key role in limb and cardiac valve development. In culture, FGF-4 has been shown to be an important regulator of growth for stem cells, fibroblasts and endothelial cells. FGF-4 contains a single N-linked glycosylation signal. Unglycosylated FGF-4 is N-terminally cleaved into 13 kDa or 15 kDa proteins that are more active than the precursor 19 kDa protein. Human FGF-4 shares high homology and cross-reactivity with the mouse protein.
Manufactured in an Animal-Free facility, without Animal-Derived materials.

Gene ID: 2249

UniProt ID: P08620

Source: *E. coli*

Molecular Weight: Monomer, 19.4 kDa (177 aa)

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5

Purity: ≥ 95%, by reducing and non-reducing SDS-PAGE.

Endotoxin Level: ≤ 1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 5 ng/ml, determined by its ability to induce the proliferation of mouse NR6R-3T3 fibroblasts

Specific Activity: ≥2.0 x 10^5 units/mg

Amino Acid Sequence: MAPTAPNGTL EAELERRWES LVALSLARLP VAAQPKEAAV QSGAGDYLLG IKRLRRLYCN VGIGFHLQAL PDGRIGGAHA DTRDSLLELS PVERGVVSIF GVASRFFVAM SSKGKLYGSP FFTDECTFKE ILLPNNYNAY ESYKYPGMFI ALSKNGKTKK GNRVSPTMKV THFLPRL

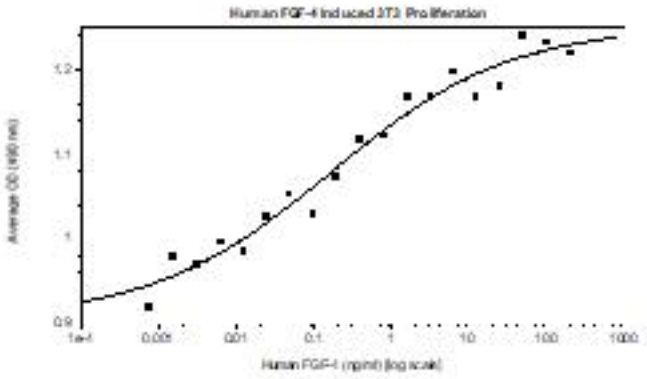
Reconstitution: **Centrifuge vial prior to opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

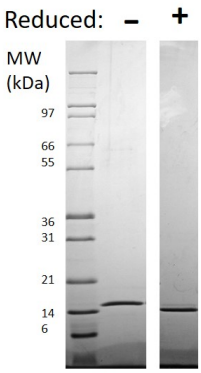
Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

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

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

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**





Human CD40-Ligand
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human CD40 Ligand has a predicted MW of 16.3 kDa.

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