

Certificate of Analysis

Recombinant Human FGF-basic

Catalog# 100-18B

Lot # 1207CY08

Expiration Date: January 2013

Source: *E.coli*

Sequence: AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVVG VREKSDPHIK LQLQAEERGV VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFFERLESNN YNTYRSRKYT SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS

Synonyms: Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin

Description: FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4. Recombinant human FGF-basic is a 17.2 kDa protein consisting of 154 amino acid residues.

Purity: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is $< 0.1 \text{ ng } / \mu\text{g}$ of FGF-basic ($< 1\text{EU}/\mu\text{g}$).

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Tris, pH 7.6 + 150 mM NaCl.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in 5mM Tris, pH 7.6, to a concentration of 0.1-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage/Stability: The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 6 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Biological activity: Determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors. The expected ED₅₀ is $\leq 0.5 \text{ ng/ml}$ corresponding to a specific activity of $\geq 2 \times 10^6 \text{ units/mg}$.

Assay #2: Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED₅₀ is $\leq 0.1 \text{ ng/ml}$, corresponding to a specific activity of $\geq 1 \times 10^7 \text{ units/mg}$.

For a list of references using this product please visit our website at
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Country of Origin: USA



QC Manager

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