



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

FIBROBLAST GROWTH FACTOR-6 (FGF-6) Human, Recombinant Expressed from *E. coli*

Product Number **F 4662**

Product Description

The FGF family of cytokines consists of at least seven growth factors that are multifunctional and have two conserved cysteine residues. All members of the family display 40-50% conserved amino acid identity.¹ FGF-6, also referred to as hst-2, was originally isolated as the product of a gene homologous to FGF-4 (hst-1). FGF-6 maps to chromosome 12 at band p13.¹ FGF-6 human recombinant is produced by expression of a DNA sequence that encodes the mature 168 amino acid FGF-6.² FGF-6 is a potent mitogen for fibroblasts. FGF-6 is mitogenic and transforming for BALB/c 3T3 cells, though only slightly active toward endothelial cells or melanocytes that normally require FGF-basic.³

Reconstitution

Reconstitute the contents of the vial using 0.2 µm-filtered PBS containing 0.1% BSA to make a FGF-6 stock solution of not less than 1 µg/ml.

Reagents

Lyophilized from a 0.2 µm-filtered solution of phosphate buffered saline (PBS), pH 7.4, containing 0.05% CHAPS and containing 1.25 mg BSA as a carrier protein.

Storage/Stability

Store at -20 °C.

Upon reconstitution, this cytokine can be stored at 2 °C for no more than 3 months. For long term storage, aliquot and freeze at -70 °C or -20 °C. Avoid repeated freeze-thaw cycles.

Product Profile

The biological activity of FGF-6 was tested in culture by measuring the FGF-dependent ³H-thymidine incorporation by quiescent NR6R-3T3 fibroblasts.⁴ The EC₅₀ is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell based bioassay.

References

1. Marics, I., et al., *Oncogene*, **4**, 335 (1989).
2. Iida, S., et al., *Oncogene*, **7**, 303 (1992).
3. Coulier, F., et al., *Oncogene*, **6**, 1437 (1991)

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