

32-1177: mFGF 8 Recombinant Protein

Alternative Name : Fibroblast growth factor 8,FGF-8,Androgen-induced growth factor,AIGF,Heparin-binding growth factor 8,HBGF-8,Fgf8.

Description

Source : Escherichia Coli. FGF-8 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids and having a molecular mass of 28.1kDa. The FGF-8 is purified by proprietary chromatographic techniques. FGF8 is part of the fibroblast growth factor family. FGF family members have wide mitogenic and cell survival activities, and participate in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF8 supports androgen and anchorage independent growth of mammary tumor cells. FGF8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF8 functions as an embryonic epithelial factor. FGF8 takes part in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination.

Product Info

Amount : 25 µg
Purification : Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : FGF-8 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Storage condition : Lyophilized FGF-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-8 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid : QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP
 KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGSRVRV
 RGAETGLYIC MNKKGKLIK SNGKGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQHQ
 REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR.

Application Note

It is recommended to reconstitute the lyophilized FGF-8 in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The ED₅₀, as determined by the dose-dependent a cell proliferation assay using NR6R-3T3 mouse fibroblast cells is <25 ng/ml in the presence of 0.1 ug/ml heprin, corresponding to a specific activity of > 4.0 × 10⁴ units/mg.

