

Recombinant Mouse Fibroblast Growth Factor-8 (rm FGF-8)

Synonyms: Heparin-binding growth factor 8 (HBGF-8), AIGF

Introduction: FGF-8 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. FGF-8 supports androgen and anchorage independent growth of mammary tumor cells. FGF-8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF-8 functions as an embryonic epithelial factor. FGF-8 takes part in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination.

Description: Recombinant mouse Fibroblast Growth Factor-8 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 246 amino acids and having a molecular mass of 28.1 kDa. The rm FGF-8 is purified by chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4
The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm FGF-8 in sterile H₂O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm FGF-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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.

Purity: Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE.

Amino Acid Sequence: QVRSAAQKRG PGAGNPADTL QGHEDRPFQ QRSRAGKNFT NPAPNYPEEG
SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE
TDTFGSRVRV RGAETGLYIC MNKKGKLIK SNGKGDVCF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP
RKGSKTRQHQ REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR.

Biological Activity: Determined by the dose-dependent a cell proliferation assay using NR6R-3T3 mouse fibroblast cells the ED50 is < 25 ng/ml in the presence of 0.1 ug/ml heparin, corresponding to a specific activity of > 4.0 ×10⁴ IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12344830
<i>medium</i>	25 µg	Cat.N°	12344834

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