

Growth Factor Data Sheet

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FGF8 is a member of the Fibroblast Growth Factor family of proteins. These proteins play a crucial role during prenatal development and postnatal growth. In mice, there are 8 known alternate spliced forms of FGF8: FGF8A-H. The human and murine FGF8A and B proteins are 100% identical while FGF8E and F proteins are 98% identical between human and mouse. FGF8 targets mammary carcinoma cells and other cells expressing the FGF receptors. In the FGF family, FGF8 is most closely associated with FGF17 and FGF18.

Catalog Number	1340-08
Product Name	FGF8, Murine Recombinant Murine Fibroblast Growth Factor 8 FGF8 AIGF (Androgen induced growth factor)
Source	<i>Escherichia coli</i>
MW	~28.1 kDa (246 amino acids)
Sequence	QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGSRVRV RGAETGLYIC MNKKGKLIK SNGKKGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQHQ REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR
Accession Number	P37237
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine balb/c 3T3 cells is less than 5.0 ng/ml, corresponding to a specific activity of $>2.0 \times 10^5$ IU/mg in the presence of 10 µg/ml of heparin.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.