9051 Mira Mesa Blvd, #910094
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FGF 8 Mouse

Fibroblast Growth Factor-8 Mouse Recombinant
GRF0080

Product Overview

Name	FGF 8 Mouse

Description

Fibroblast Growth Factor-8 Mouse Recombinant

Accession (Primary)	P37237

Synonyms

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

Introduction

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 angiogensis. 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

FGF-8 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Stability

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.

Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ

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SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGSRVRV RGAETGLYIC MNKKGKLIAK SNGKGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQHQ REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR.

Biological Activity

The ED50, as determined by the dose-dependent a cell proliferation assay using NR6R-3T3 mouse fibroblast cells is 4.0×10 4 units/mg.

Solubility

It is recommended to reconstitute the lyophilized FGF-8 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FGF 8 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P37237)