Recombinant Murine Fibroblast Growth Factor 8

Catalog No: #AP60186

Package Size: #AP60186-1 5ug #AP60186-2 100ug #AP60186-3 500ug

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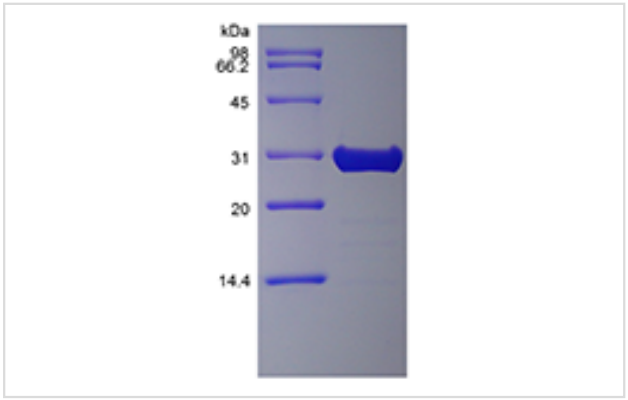
Description

Product Name	Recombinant Murine Fibroblast Growth Factor 8
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	AIGF, HBGF-8, FGF-8c
Uniprot	P37237
GeneID	14179
Calculated MW	Approximately 28.1 kDa, a single non-glycosylated polypeptide chain containing 246 amino acids.
Target Sequence	QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGSRVRV RGAETGLYIC MNKKGKLIAK SNGKGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQHQ REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4, 500 mM NaCl.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Murine FGF-8 is a heparin binding growth factor belonging to the FGF family, which plays a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. Murine FGF-8 is first purified from an androgen-dependent mouse mammary carcinoma cell line as an androgen induces secretion. Cloning and analysis of the murine FGF8 gene revealed at least eight potential protein isoforms (FGF-8a-h). Murine FGF-8a and b share 100 % amino acid identity with that in humans, and murine FGF-8e and f share 98 % amino acid identity with humans. None of the FGF-8 isoforms exhibited activity to FGFR1b, 2b, 3b, but FGFR2c, 3c and FGFR4 can be activated by several FGF-8 isoforms. FGF-8 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration, and it is required for normal brain, eye, ear and limb development during embryogenesis.

Note: This product is for in vitro research use only