

Product datasheet

Recombinant mouse FGF2 protein (Animal Free) ab217480

Description

Product name	Recombinant mouse FGF2 protein (Animal Free)
Biological activity	Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED50 is ≤ 1.0 ng/mL, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.
Purity	> 95 % SDS-PAGE. >95% by HPLC.
Expression system	Escherichia coli
Accession	P15655
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Mouse
Sequence	PALPEDGGAA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS
Predicted molecular weight	16 kDa
Amino acids	10 to 154
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab217480** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC Functional Studies
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	For lot specific reconstitution information please contact our Scientific Support Team.
General Info	
Function	Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Can induce angiogenesis (PubMed:23469107).
Tissue specificity	Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.
Sequence similarities	Belongs to the heparin-binding growth factors family.
Post-translational modifications	Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion. Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by direct sequencing.
Cellular localization	Secreted. Nucleus. Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane. Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol. Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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