

# Human FGF-4, Animal-Free Recombinant Protein, PeproTech®

## Product Details

Size	100 µg
Species	Human
Published Species	Pig, Human, Mouse
Expression system	E. coli
Amino acid sequence	GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG DYLLGIKRLR RLYCNVGIGF HLQALPDGRI GGAHADTRDS LLELSPVERG VVSIFGVASR FFVAMSSKGK LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN GKTKKGNRVS PTMKVTHFLP RL
Molecular weight	19.7 kDa
Class	Recombinant
Type	Protein
Purity	95% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<0.1 EU/µg
Activity	Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED50 is 10 ng/ml, corresponding to a specific activity of $1 \times 10^5$ units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	10 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

AF-100-31-1MG will be provided as 2 x 500 µg (AF-100-31-500UG).

Recombinant Human FGF-4 is a 19.7 kDa protein consisting of 182 amino acid residues.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

In vitro Assay (10)

<p>Nature communications</p> <p><b>Acute liver steatosis translationally controls the epigenetic regulator MIER1 to promote liver regeneration in a study with male mice.</b></p> <p>"AF-100-31 was used in In vitro experiments to identify an epigenetic mechanism by which the early phase lipid redistribution from adipose tissue to liver during regeneration impacts hepatocyte proliferation, and suggest a potential strategy to boost liver regeneration."</p> <p>Authors: Chen Y,Chen L,Wu X,Zhao Y,Wang Y,Jiang D,Liu X,Zhou T,Li S,Wei Y,Liu Y,Hu C,Zhou B,Qin J,Ying H,Ding Q</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Cell regeneration (London, England)</p> <p><b>Modeling drug-induced liver injury and screening for anti-hepatofibrotic compounds using human PSC-derived organoids.</b></p> <p>"AF-100-31 was used in Tissue/organ culture to demonstrate the potential applications of human liver organoids in drug safety testing and anti-fibrotic drug screening."</p> <p>Authors: Wu X,Jiang D,Yang Y,Li S,Ding Q</p>	<p>Year 2023</p> <p>Species Human</p>

[View more IV references on thermofisher.cn](#)

Miscellaneous PubMed (1)

<p>Cell reports</p> <p><b>Rif1 and Hmgn3 regulate the conversion of murine trophoblast stem cells.</b></p> <p>"AF-100-31 was used in Sample Preparation to study the mechanisms underlying trophectoderm (TE) specification, a hallmark event in preimplantation development during murine embryogenesis, to report two key genes regulating the conversion of trophoblast stem cells (TSCs) and provide insights for investigating TE specification."</p> <p>Authors: Zhang W,Yao C,Luo Y,Li Q,Zhao Q,Zhao Y,Wang Y,Geng M,Wang Q,Xu M,Sun S,Wu D,Gao Q,Wu X,Shuai L</p>	<p>Year 2022</p> <p>Species Mouse</p>
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More applications with references on thermofisher.cn

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