

Recombinant Human AFP protein, M2 Peptide fused

Cat. No. AFP-29H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AFP fusion protein was constructed by fusion human alpha fetal protein (AFP) N-terminal domain-I (1-198 aa) with human collagen type I derived AAQIRSQVMTHLRVIYER peptide and was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-198 a.a.
Description	Cell adhesion to the extracellular matrix (ECM) is essential for the development and maintenance of cells. Cell adhesion to various ECM as ligands is mainly mediated by cell surface receptor such as integrins. Human Collagen Type I is a key component in ECM for cell attachment and differentiation. M2 Peptide AAQIRSQVMTHLRVIYER that derived from human collagen type I protein has been demonstrated in vitro as collagen mimetics and specific interacts with APP. This peptide will be a good coating matrix for cell attachment in serum free medium or enhance specific cell lineage differentiation.
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Purity	>90% by SDS-PAGE
Applications	1. As fusion protein fully derived from human protein, can be used as coating matrix

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protein to replace human collagen type I for human cell differentiation regulation study in vitro.2. Can be used in low serum or serum-free cell culture media to improve attachment and spreading of many normal and stem cells including human ES cell, endothelial, epithelial, hepatocytes and mesenchymal stem cells.3. Can be used to improve survival of primary cultures.

Storage Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

GENE INFORMATION

Gene Name [AFP alpha-fetoprotein \[Homo sapiens \]](#)

Official Symbol [AFP](#)

Synonyms AFP; alpha-fetoprotein; HPAFP; FETA; alpha-fetoglobulin; alpha-1-fetoprotein;

Gene ID [174](#)

mRNA Refseq [NM_001134](#)

Protein Refseq [NP_001125](#)

MIM

UniProt ID [P02771](#)

Chromosome Location 4q11-q13

Pathway Direct p53 effectors, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Glucocorticoid receptor regulatory

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network, organism-specific biosystem;

Function

metal ion binding;

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