

Recombinant human TIMP-1 protein

Catalog Number: ATGP3097

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-207aa

UniProt No.

P01033

NCBI Accession No.

NP_003245.1

Alternative Names

TIMP metalloproteinase inhibitor 1, CLGI, EPA, EPO, HCI, TIMP

PRODUCT SPECIFICATION

Molecular Weight

21.5 kDa (190aa)

Concentration

0.2mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

TIMP1, also known as TIMP metalloproteinase inhibitor 1, is a glycoprotein that is expressed from the several tissues of organisms. This protein is a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell

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proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Recombinant human TIMP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS
EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRGFTKY TVGCEECTVF PCLSIPCKLQ SGTHCLWTDQ LLQGSEKGFQ
SRHLACLPRE PGLCTWQSLR SQIA<HHHHHH>

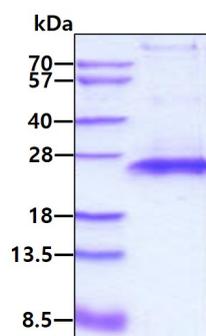
General References

Ma J, et al (2013) Int J Clin Exp Pathol. 7(1):246-54.

Tarhini AA, et al (2014) J Transl Med. 12:19.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain