

AR51833PU-S

Human TIMP1 (24-207, His-tag) - Purified

Alternate names:

CLGI, EPA, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, Metalloproteinase inhibitor 1, TIMP, TIMP-1, Tissue inhibitor of metalloproteinases

Quantity:

0.1 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

TIMP1 also known as metalloproteinase inhibitor 1. The matrix metalloproteinases are inhibited by specific endogenous tissue inhibitors of metalloproteinases (TIMPs), which comprise a family of four protease inhibitors: TIMP1, TIMP2, TIMP3 and TIMP4. Overall, all MMPs are inhibited by TIMPs once they are activated but the gelatinases (MMP-2 and MMP-9) can form complexes with TIMPs when the enzymes are in the latent form. The complex of latent MMP-2 (pro-MMP-2) with TIMP-2 serves to facilitate the activation of pro-MMP-2 at the cell surface by MT1-MMP (MMP-14), a membrane-anchored MMP. The role of the pro-MMP-9/TIMP-1 complex is still unknown.

Uniprot ID:

[P01033](#)

NCBI:

[NP_003245](#)

GenelD:

[7076](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol.

Description:

Recombinant human TIMP1, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MCTCVPPHPQ TAF CNSDLVI RAKFVGTP EV NQTTLYQRYE
IKMTKMYKGF QALGDAADIR FVYTPAMESV CGYFHRSHNR SEEF LIAGKL QDGL LHITTC
SFVAPWNSLS LAQRRGFTKT YTVGCEECTV FPCL SIPCKL QSGTHCLWTD QLLQGSEKGF
QSRHLACLPR EPG LCTWQSL RSQIA

Molecular weight: 23 kDa (205aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Brew K., et al. (2000) Biochim Biophys Acta 1477 (1-2): 267-83.

Pictures:

