

Product information

TIMP1, 24-207aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3013

Full name: Metalloproteinase inhibitor 1

NCBI Accession No.: NP_003245

Synonyms: EPA, EPO, HCI, CLGI, TIMP

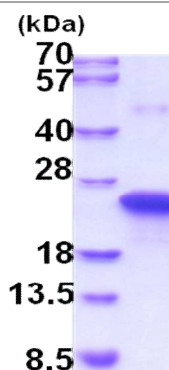
Description: TIMP1 also known as metalloproteinase inhibitor 1. The matrix metalloproteinases are inhibited by specific endogenous tissue inhibitors of metalloproteinases (TIMPs), which comprise a family of four protease inhibitors: TIMP1, TIMP2, TIMP3 and TIMP4. Overall, all MMPs are inhibited by TIMPs 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. Recombinant human TIMP1, fused to His-tag at N-terminus, was expressed in *E.coli*.

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

Molecular Weight: 23kDa (205aa)

Purity: > 90% by SDS - PAGE

Concentration: 0.25mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MCTCVPPHPQ TAF CNSDLVI RAKFVGTPPEV NQTTLYQRYE IKMTKMYKGF QALGDAADIR FVYTPAMESV
CGYFHRSHNR SEEFLIAGKL QDGLLHITTC SFVAPWNSLS LAQRRGFTKT YTVGCEECTV FPCLSI PCKL QSGTHCLWTD QLLQGSEKGF
QSRHLACLPR EPGCLTWQSL RSQIA

General references:

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.