
TIMP1, 24-207aa, Human, His tag, E.coliii**Cat.NO.: TP04219**

3th Edition

Synonyms: Metalloproteinase inhibitor 1, EPA, EPO, HCl, 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)**Sequences:**MGSSHHHHHSSGLVPRGSHMCTCVPPHPQTAFCSNDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALG
DAADIRFVYTPAMESVCGYFHRSHNRSEEFLLIAGKLDGLLHITTCFVAPWNSLSLAQRRGFTKTYTVGCEECTVF
PCLSIKPKLQSGTHCLWTDQLLQSEKGFQSRHLACLPREPGLCTWQSLRSQIA**Purity:** > 95% by HPLC**Concentration:** 0.25mg/ml (determined by Bradford assay)**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)**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.