



# Recombinant Protein Technical Manual

## Recombinant Mouse TIMP1/TIMP Protein

RPES3288

### Product Data:

**Product SKU:** RPES3288

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** P12032

### Protein Information:

**Molecular Mass:** 20.2 kDa

**AP Molecular Mass:** 26 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Metalloproteinase Inhibitor 1; Erythroid-Potentiating Activity; EPA; Fibroblast collagenase Inhibitor; Collagenase Inhibitor; Tissue Inhibitor of Metalloproteinases 1; TIMP; TIMP1; CLGI; TIMP

## Immunogen Information:

**Sequence:** Cys25-Arg205

## Background:

Mouse Tissue Inhibitor of Metalloproteinases 1 (TIMP) is a member of TIMP family. The homologous proteins of TIMPs regulate the activity of matrix metalloproteinases (MMPs), including inhibition of active MMPs, proMMP activation, cell growth promotion, matrix binding, inhibition of angiogenesis and the induction of apoptosis. Timp complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. It also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. It is known to act on MMP, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP0, MMP1, MMP2, MMP3, and MMP6, without MMP4.