



Recombinant Protein Technical Manual

Recombinant Human TIMP/TIMP1 Protein (His Tag)

RPES3331

Product Data:

Product SKU: RPES3331

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_003245.1

Protein Information:

Molecular Mass: 21.8 kDa

AP Molecular Mass: 27 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing 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 PB, 150mM NaCl, pH 7.2.

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;CLGI;EPA;EPO;HCI

Immunogen Information:

Sequence: Cys24-Ala207

Background:

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.