



# Recombinant Protein Technical Manual

**Recombinant Human TIMP2/TIMP-2 Protein (His Tag)**  
RPES0863

## Product Data:

**Product SKU:** RPES0863

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P16035

## Protein Information:

**Molecular Mass:** 22.8 kDa

**AP Molecular Mass:** 21 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 2; CSC-21K; Tissue Inhibitor of Metalloproteinases 2; CSC-21K; DDC8

## Immunogen Information:

**Sequence:** Cys27-Pro220

## Background:

Tissue inhibitors of metalloproteinases or TIMPs are a family of proteins that regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases (MMPs). There are four members of the family, TIMP, TIMP-2, TIMP-3, and TIMP-4. Tissue Inhibitor of Metalloproteinases 2 (TIMP-2) is a non N-glycosylated protein with a molecular mass of 22 kDa. It produced by a wide range of cell types, which inhibits MMPs non-covalently by the formation of binary complexes and irreversibly inactivates them by binding to their catalytic zinc cofactor. TIMP-2 also has erythroid-potentiating and cell growth promoting activities.