HUMAN TIMP1 PROTEIN, HFC TAG

Cat.#: 11852

Product Name: Human TIMP1 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: CLGI;EPA;EPO;HCI;TIMP;TIMP-1

Target: TIMP1

UNIPROT ID: P01033

Description: Recombinant Human TIMP1 Protein with C-terminal human Fc tag

Background: This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 46.8 kDa after removal of the signal peptide. The apparent molecular mass of TIMP1-hFc is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: TIMP1(Cys24-Ala207) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

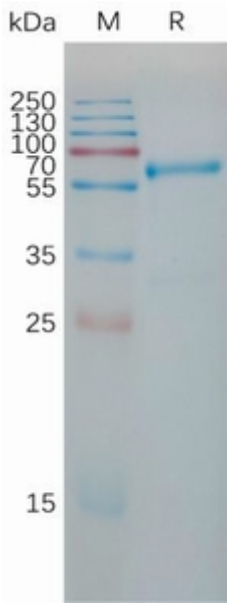

Figure 1. Human TIMP1 Protein, hFc Tag on SDS-PAGE under reducing condition.