A Reliable Research Partner in Life Science and Medicine

Recombinant Human TIMP-2 Protein(hlgG1 Fc Tag)

Catalog Number: PDMH100439

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Human

Source Mammalian-derived Human TIMP-2 protein Cys27-Pro220, with an C-terminal hIgGl

Fc

Calculated MW 46.2 kDa
Observed MW 50 kDa
Accession P16035

Bio-activity Not validated for activity

Properties

Purity > 95% as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Storage Generally, 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.

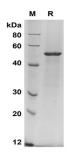
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human TIMP-2 proteins, 2µg/lane of Recombinant Human TIMP-2 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 50 kDa

Background

Elabscience®

Elabscience Biotechnology Co., Ltd.

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Tissue inhibitors of metalloproteinases (TIMP) family are natural inhibitors of the matrix metalloproteinases (MMPs), the zinc enzymes involved in extracellular matrix maintenance and remodeling. The TIMP family encompasses four members (TIMP1-4), and they inhibit most MMPs by forming non-covalent binary complex. TIMP2 is a 22 kDa non N-glycosylated protein expressed by a variety of cell types, and plays a unique role among TIMP family members owing to its functions to regulate cellular responses to growth factors. Findings establish an unexpected, MMP-independent mechanism for TIMP2 inhibition of endothelial cell proliferation in vitro and reveal an important component of the antiangiogenic effect of TIMP2 in vivo. TIMP-2 thus is critical to the maintenance of tissue homeostasis and is involved in the regulation of tumor microenvironment.