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32-2850: TIMP1 HEK Recombinant Protein

Alternative Name :

Metalloproteinase inhibitor 1, Tissue inhibitor of metalloproteinases, TIMP-1, Erythroid-potentiating

activity, EPA, Fibroblast collagenase inhibitor, Collagenase inhibitor, TIMP1, CLGI, TIMP, EPO, HCI, FLJ90373.

Description

Source: HEK293 Cells. TIMP1 Human Recombinant produced in HEK-293 cells is a secreted protein with the sequence of Human TIMP-1 (amino acids Cys24-Ala207) and fused to a polyhistidine tag at the C-terminus. TIMP1 is a member of the TIMP family. TIMP1 is an inducible glycoprotein produced by various cell types. The TIMP1 glycoprotein is a natural inhibitor of the matrix metalloproteinases, which a group of peptidases involved in degradation of the extracellular matrix. TIMP1 binds in a reversible mode to MMPs, with regions in the N-terminal domain binding to the MMP substrate-binding site. On top of its inhibitory function against most of the known MMPs, TIMP1 is able to promote cell proliferation in a broad range of cell types, and may also have an anti-apoptotic role. Furthermore, TIMP1 has erthyroid-potentiating activity via translocation to the nucleus and also inhibits apoptosis in B-cells. The TIMP1 gene is situated within intron 6 of the synapsin I gene and is transcribed in the opposite direction. TIMP1 activity is dependent on the existence of disulfide bonds. TIMP1 transcription is extremely inducible in reaction to many cytokines and hormones. Increased TIMP1 levels are connecte

Product Info

Amount: 10 μg

Purification: Greater than 95.0% as determined by SDS-PAGE.

Content: The TIMP1 protein was lyophilized after extensive dialysis against PBS.

Lyophilized TIMP1 although stable at room temperature for 3 weeks, should be stored desiccated

Storage condition:

below -18°C. Upon reconstitution TIMP1 should be stored at 4°C between 2-7 days and for future

use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or

BSA). Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized TIMP1 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The IC50 of 2.5-4 nM is measured by its ability to inhibit recombinant human MMP-2 cleavage of the colorimetric peptide substrate, Mca-PLGL-DpaAR-NH2.

