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32-20233: Recombinant Human TIMP-1(Discontinued)

Reactivity : Human

Alternative Name : Tissue inhibitor of metalloproteinases, Fibroblast collagenase inhibitor, Erythroid-potentiating activity

Description

Source:E.coli

TIMP-1 is an extracellular inhibitor of MMPs, including MMP-1, -2, -3, -7, -8, -9, -10, -11, -12, -13, and -16. It belongs to the I35 (TIMP) family of irreversible protease inhibitors that function as key modulators of extracellular matrix degradation during tissue development and remodeling. TIMP-1 can also act through an MMP-independent mechanism to promote erythropoiesis by stimulating proliferation and differentiation of erythroid progenitors. Recombinant Human TIMP-1 is a 20.6 kDa protein containing 184 amino acid residues.

Product Info

Amount : 2 µg / 10 µg

Purification : Purity: >= 95% by SDS-PAGE gel and HPLC analyses.

Amino Acid : CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRGFTKTY TVGCEECTVF PCLSIPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIA

Application Note

TIMP-1 activity was measured by its ability to inhibit human MMP-1-induced hydrolysis of a chromogenic peptide substrate at room temperature. Half maximal inhibition was obtained at a TIMP-1 concentration of approximately 0.5 ÃÂµg/ml, when using an MMP-1 concentration of 1.6 ÃÂµg/ml.ÃÂ

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