

TIMP2, 27-220aa, Human, His tag, E.coli

Cat.NO.: TP04221

3th Edition

Synonyms:TIMP metalloproteinase inhibitor 2, CSC-21K, CSC21K

Description:TIMP2 is a natural inhibitor of the matrix metalloproteinases, a group of peptidases involved in of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, this protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, TIMP2 may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular. Recombinant human TIMP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:26.1 kDa (232aa), confirmed by MALDI-TOF

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHEMCSKSPVHPQQAFNADVVIRAKAVSEKEVDSGN
DIYGNPIKRIQYEIKQIKMFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDTLSTT
QKKS LN HRYQMGCECKITRCPMIPCYISSPDECLWMDWVTEK NINGHQAKFFACIKRSDGSCAWYRGAAPPKQEF
LDIEDP

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.