

## TIMP-2 Human E. coli

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RBG10320002	(2 µg)
<b>Species:</b> Human	RBG10320010	(10 µg)
<b>Other names:</b> Tissue inhibitor of metalloproteinases 2, CSC-21K	RBG10320100	(100 µg)

### Description

TIMP-2 is an extracellular inhibitor of MMPs, including MMP-1, -2, -3, -7, -8, -9, -10, -12, -13, -14, -15, -16 and -19. 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-2 can also act through an MMP-independent mechanism inhibiting endothelial cell proliferation in vitro and demonstrates anti-angiogenic activities in vivo. Recombinant Human TIMP-2 is a 21.8 kDa protein containing 194 amino acid residues.

### Research topic

Others

### Amino Acid Sequence

CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG  
KKEYLIAGKA EGDGKMHITL CDFIVPWDTL STTQKSLNH RYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKNINGH  
QAKFFACIKR SDGSCAWYRG AAPPKQEFLL IEDP

### Source

E. coli

### Purity

95%

### Biological Activity

TIMP-2 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-2 concentration of approximately 0.5 µg/ml, when using an MMP-1 concentration of 1.6 µg/ml.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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