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# Datasheet for ABIN7317884

# **TIMP2 Protein**



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Quantity:	20 μg	
Target:	TIMP2	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Product Details		
Purpose:	Recombinant Human TIMP2/TIMP-2 Protein (Active)	
Sequence:	Cys 27-Pro 220	
Characteristics:	A DNA sequence encoding the mature form of human TIMP2 (NP_003246.1) (Cys 27-Pro 220) was expressed and purified.	
Purity:	> 96 % as determined by reducing SDS-PAGE.	
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.	
Biological Activity Comment:	Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate MCA-PLGL-DPA-AR-NH2(R&D Systems, Catalog # ES001). The IC50 value is < 4 nM.	
Target Details		
Target:	TIMP2	
Alternative Name:	TIMP2/TIMP-2 (TIMP2 Products)	

#### **Target Details**

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Background: 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.

Synonym: Metalloproteinase Inhibitor 2, CSC-21K, Tissue Inhibitor of Metalloproteinases 2,CSC-21K,DDC8

Molecular Weight:

22 kDa

NCBI Accession:

NP\_003246

Pathways:

**cAMP Metabolic Process** 

## **Application Details**

Restrictions:

For Research Use only

### Handling

Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	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.	