

## Product datasheet

# Native Human TIMP1 protein ab157282

### Overview

<b>Product name</b>	Native Human TIMP1 protein
<b>Protein length</b>	Full length protein

### Description

<b>Nature</b>	Native
<b>Source</b>	Native
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P01033</a>
<b>Species</b>	Human
<b>Sequence</b>	CTCVPPHPQTAF CNSDLVIRAKFVGTPEVNQTTLYQRY EIKMTKMYKGFQ ALGDAADIRFVYTPAMESVCGYFHRSHNRSEEFLLAGK LQDGLLHITCS FVAPWNSLSLAQRRGFTKTYTVGCEECTVFPCLSIPC KLQSGTHCLWTDQ LLQGSEKGFQSRHLACLPREPGLCTWQSLRSQIA
<b>Molecular weight</b>	28 kDa
<b>Amino acids</b>	24 to 207

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab157282** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot SDS-PAGE
<b>Purity</b>	>90% by SDS-PAGE. Purity: 92% (SDS-PAGE, Western blot).
<b>Form</b>	Liquid
<b>Additional notes</b>	Note: It is recommended to perform a preincubation of ~20 min. at 37°C to allow formation of the enzyme-inhibitor complex.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 0.05% Sodium azide Constituents: 0.05% Brij, 0.05% Calcium chloride, 0.00001% Zinc chloride, 0.79% Tris HCl, 1.17% Sodium chloride
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## General Info

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<b>Function</b>	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.
<b>Sequence similarities</b>	Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.
<b>Post-translational modifications</b>	The activity of TIMP1 is dependent on the presence of disulfide bonds.
<b>Cellular localization</b>	Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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