

## OriGene Technologies Inc.

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## AR09487PU-N OriGene EU

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|                   | Human TIMP1  |
|-------------------|--|
| Alternate names:  | CLGI, EPA, Erythroid-potentiating activity, Fibroblast collagenase inhibitor,<br>Metalloproteinase inhibitor 1, TIMP, TIMP-1, Tissue inhibitor of metalloproteinases   |
| Catalog No.:      | AR09487PU-N  |
| Quantity:         | 10 µg  |
| Background:       | TIMP1 is an extracellular inhibitor of MMPs (see above) including MMP1, 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. TIMP1 can also act through an MMP-independent mechanism to promote erythropoiesis by stimulating proliferation and differentiation of erythroid progenitors.  |
| Uniprot ID:       | <u>P01033</u>  |
| NCBI:             | <u>NP_003245</u>   |
| GenelD:           | <u>7076</u>  |
| Species:          | Human  |
| Source:           | E. coli  |
| Format:           | <b>State:</b> Lyophilized purified protein.<br><b>Purity:</b> >95% pure by SDS-PAGE gel and HPLC analyses.<br><b>Endotoxin Level:</b> < 0.1 ng per μg (1EU/μg)<br><b>Reconstitution:</b> Restore in water to a concentration of 0.1-1.0 mg/ml.   |
| Description:      | Recombinant Human TIMP-1 is a 20.6 kDa protein containing 184 amino acid residues.<br>AA Sequence:<br>CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC<br>GYFHRSHNRS EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRGFTKTY TVGCEECTVF PCLSIPCKLQ<br>SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIA<br>Biological Activity: TIMP1 activity was measured by its ability to inhibit Human MMP-1<br>induced hydrolysis of a chromogenic peptide substrate at room temperature.<br>Half maximal inhibition was obtained at a TIMP-1 concentration of approximately 0.5<br>μg/ml, when using an MMP-1 concentration of 1.6 μg/ml.<br>Molecular weight: 20.6 kDa (184 aa) |
| Add. Information: | Centrifuge vial before opening.  |
| Storage:          | Store the lyophilized protein at -20°C.<br>Following reconstitution product is stable for 3 months when stored in working aliquots<br>with a carrier protein at -20°C.<br>Avoid repeated freezing and thawing.<br>Shelf life: One year from despatch.  |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com