

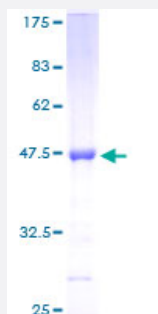
Full-Length

# TIMP2 (Human) Recombinant Protein (P01)

Catalog # H00007077-P01

Size 25 ug, 10 ug

## Applications



## Specification

|                         |                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description     | Human TIMP2 full-length ORF ( AAH52605, 27 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                 |
| Sequence                | CSCSPVHPQQAFCNADVIRAKAVSEKEVDSGNDIYGNIPIKRIQYEIKQIKMFKGPEKDIEFIYTAPS<br>SAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIWPWDTLSTTQKKSLNHRYSQMGCECKITRC<br>PMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP |
| Host                    | Wheat Germ (in vitro)                                                                                                                                                                                       |
| Theoretical MW (kDa)    | 47.08                                                                                                                                                                                                       |
| Preparation Method      | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                       |
| Purification            | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                           |
| Quality Control Testing | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                 |
| Storage Buffer          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                    |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                             |
| Note                    | Best use within three months from the date of receipt of this protein.                                                                                                                                      |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — TIMP2

Entrez GeneID [7077](#)

GeneBank Accession# [BC052605](#)

Protein Accession# [AAH52605](#)

Gene Name TIMP2

Gene Alias CSC-21K

Gene Description TIMP metalloproteinase inhibitor 2

Omim ID [188825](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein 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 matrix. [provided by RefSeq]

**Other Designations** tissue inhibitor of metalloproteinase 2|tissue inhibitor of metalloproteinases 2

## Disease

- [Alzheimer disease](#)

- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Hemorrhage](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Duodenal Ulcer](#)
- [Edema](#)

- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Fetal Membranes](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Graft Occlusion](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hepatitis C](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Inflammation](#)
- [Intracranial Aneurysm](#)
- [Liver Cirrhosis](#)
- [Long QT syndrome](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Mouth Neoplasms](#)
- [Myocardial Infarction](#)
- [Neoplasm](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Periodontitis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)
- [Thrombosis](#)
- [Uterine Diseases](#)