

## Tissue Inhibitor of Metalloprotease 2 Human Recombinant, HEK

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| <b>Item Number</b>                       | rAP-1893  |
| <b>Synonyms</b>                          | TIMP metalloproteinase inhibitor 2, CSC-21K, tissue inhibitor of metalloproteinase 2, TIMP-2, metalloproteinase inhibitor 2.  |
| <b>Description</b>                       | TIMP2 Human Recombinant produced in HEK-293 cells is a secreted protein with the sequence of Human TIMP-2 (amino acids Cys27-Pro220) and is fused to a polyhistidine tag at the C-terminus.   |
| <b>Uniprot Accession Number</b>          | P16035  |
| <b>Amino Acid Sequence</b>               |   |
| <b>Source</b>                            | HEK293 Cells.   |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized TIMP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TIMP2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | The TIMP2 protein was lyophilized after extensive dialysis against PBS. Greater than 95.0% as determined by SDS-PAGE.   |
| <b>Application</b>                       |   |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized TIMP2 in sterile assay buffer (50mM Tris, 10mM CaCl <sub>2</sub> , 150mM NaCl, 0.05% Brij-35, PH 7.5) not less than 100µg/ml.   |
| <b>Biological Activity</b>               | The IC <sub>50</sub> of 3 nM is measured by its ability to inhibit recombinant human MMP-2 cleavage of the colorimetric peptide substrate, Mca-PLGL-DpaAR-NH <sub>2</sub> .   |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**