

Tissue Inhibitor of Metalloprotease 1 Human Recombinant, HEK

Item Number	rAP-1895
Synonyms	Metalloproteinase inhibitor 1, Tissue inhibitor of metalloproteinases, TIMP-1, Erythroid-potentiating activity, EPA, TIMP1, CLGI, TIMP, EPO, HCl, FLJ90373.
Description	TIMP1 Human Recombinant produced in HEK-293 cells is a secreted protein with the sequence of Human TIMP-1 (amino acids Cys24-Ala207) and fused to a polyhistidine tag at the C-terminus.
Uniprot Accession Number	P01033
Amino Acid Sequence	
Source	HEK293 Cells.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized TIMP1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TIMP1 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.
Formulation and Purity	The TIMP1 protein was lyophilized after extensive dialysis against PBS. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized TIMP1 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The IC ₅₀ of 2.5-4 nM is measured by its ability to inhibit recombinant human MMP-2 cleavage of the colorimetric peptide substrate, Mca-PLGL-DpaAR-NH ₂ .
Shipping Format and Condition	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**