

Tissue Inhibitor of Metalloprotease 2 Human Recombinant

Item Number	rAP-1897
Synonyms	Fibroblast growth factor 17, FGF-17, FGF17, FGF-13, HH20.
Description	TIMP2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 194 amino acids and having a molecular mass of 21.8kDa.
Uniprot Accession Number	P16035
Amino Acid Sequence	CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKA EGDGKMHTL CDFIVPWTDL STTQKKSLNH RYQMGCECKI TRCPMIP-CYI SSPDECLWMD WYTEKNINGH QAKFFACIKR SDGSCAWYRG AAPPKQEFLD IEDP
Source	Escherichia Coli.
Physical Appearance and Stability	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.
Formulation and Purity	TIMP2 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 3 % trehalose. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized TIMP2 in sterile 18M ² -cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Fully biologically active when compared to standard. The biologically active as determined by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-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**