

Human Metalloproteinase inhibitor 1 ELISA Kit (2 plates)

Catalogue No.: BEK-2097-2P

Description: The human Metalloproteinase inhibitor 1 (TIMP-1) Kit is a sandwich ELISA. The capture antibody is a polyclonal human TIMP-1 antibody pre-coated onto the 96-well strip plates provided in the kit. Human test samples and standards of known TIMP-1 concentration are added to these wells and allowed to complex with the bound TIMP-1 antibody. A biotinylated human TIMP-1 polyclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of TIMP-1 present in the samples. The purpose of this kit is the in-vitro quantitative determination of human TIMP-1 in samples such as sera, plasma, tissue lysates and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

Batch No.: See product labels

Antigen: The matrix metalloproteinases (MMPs) are a large family of zinc endopeptidases that degrade extracellular matrix components such as fibronectin and collagen type III. The tissue inhibitors of metalloproteinase (TIMPs) complex with these matrix metalloproteinases and irreversibly inactivate them. The TIMP proteins are homologous and are either secreted in soluble form (TIMP1, TIMP2 and TIMP4) or bind to extracellular matrix components (TIMP3).

Other Names: Tissue inhibitor of metalloproteinases 1; Erythroid-potentiating activity; Fibroblast collagenase inhibitor; EPA;

Accession: P01033 TIMP1_HUMAN;

Specificity: Human TIMP-1

Storage: Store at 4°C

Kit components: The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.

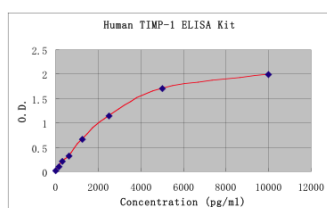
Range: 156 pg/ml - 10,000 pg/ml

Sensitivity: < 5 pg/ml

Kit protocol: Please refer to our online product listing for current protocol/MSDS versions.

Typical Human Metalloproteinase inhibitor 1 ELISA Kit Standard Curve
(TMB reaction incubated at 37°C for 25 min)

Concentration (pg/ml)	0.0	156	313	625	1250	2500	5000	10,000
O.D.	0.011	0.096	0.209	0.316	0.654	1.138	1.704	1.998



This standard curve is for demonstration purposes only. A standard curve should be generated for each assay.

FOR RESEARCH USE ONLY