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Product Datasheet

Human TFPI2 protein, His tag (active), Unconjugated GTX00278-PRO

Article Name	Human TFPI2 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00278-PRO
Supplier Catalog Number	GTX00278-pro
Alternative Catalog Number	GTX00278-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	7980
UniProt	P48307
Buffer	Reconstitute with 100 mM NaHCO ₃ and 500 mM NaCl (pH8.3) to 0.1-1.0 mg/mL. Do not vortex. Lyophilized from 100 mM NaHCO ₃ (pH 8.3) with 500 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Asp23~Phe235 (NP_001257932.1)

Application Notes	Tissue Factor Pathway Inhibitor 2 (TFPI2) takes part in the regulation of plasmin-mediated matrix remodeling. Inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa. TFPI2 does not have any influence on thrombin. TFPI2 also can inhibit MMP activity, which can hydrolyze gelatin under certain conditions. Thus, the activity of TFPI2 can be measured by inhibit MMP-2 hydrolyze gelatin. Gelatin zymography is mainly used for the detection of the gelatinases, 2µg/ml was denatured by SDS loading buffer, electrophoresed through sodium dodecylsulphate-polyacrylamide gel (SDS-PAGE, 8% gels) containing gelatin (1 mg/ml) with nonreducing conditions. After renaturation, incubate with various concentrations of recombinant human TFPI2, then staining with coomassie brilliant blue G250, active MMP-2 would hydrolyze gelatin nearby, which was indicated by the white binds on the gel, if the activity of MMP-2 inhibit by TFPI2, there was none white binds on the gel. MMP-2 can be inhibited by recombinant human TFPI2 at least 5µg/ml.
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