

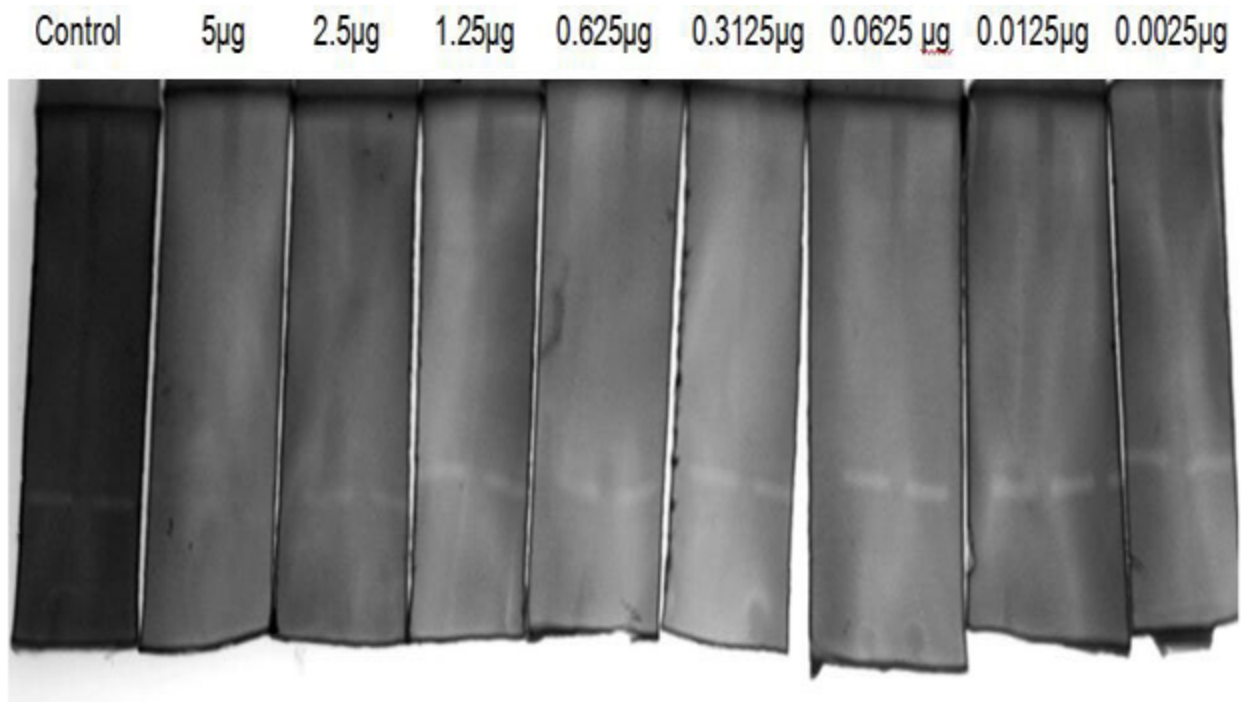
Active Tissue Factor Pathway Inhibitor 2 (TFPI2) Instruction Manual

SBPB281Hu01

Homo sapiens (Human)

Buffer Formulation	100mMNaHCO ₃ , 500mMNaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Traits	Freeze-dried powder
Purity	> 95%
Isoelectric Point	8.9
Applications	Cell culture; Activity Assays.

ACTIVITY TEST



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 (1mg/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. The result was shown in figure 1.

As the figure1 shown, MMP-2 can be inhibited by recombinant human TFPI2 at least 5µg/mL.

USAGE

Reconstitute in 100mM NaHCO₃, 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

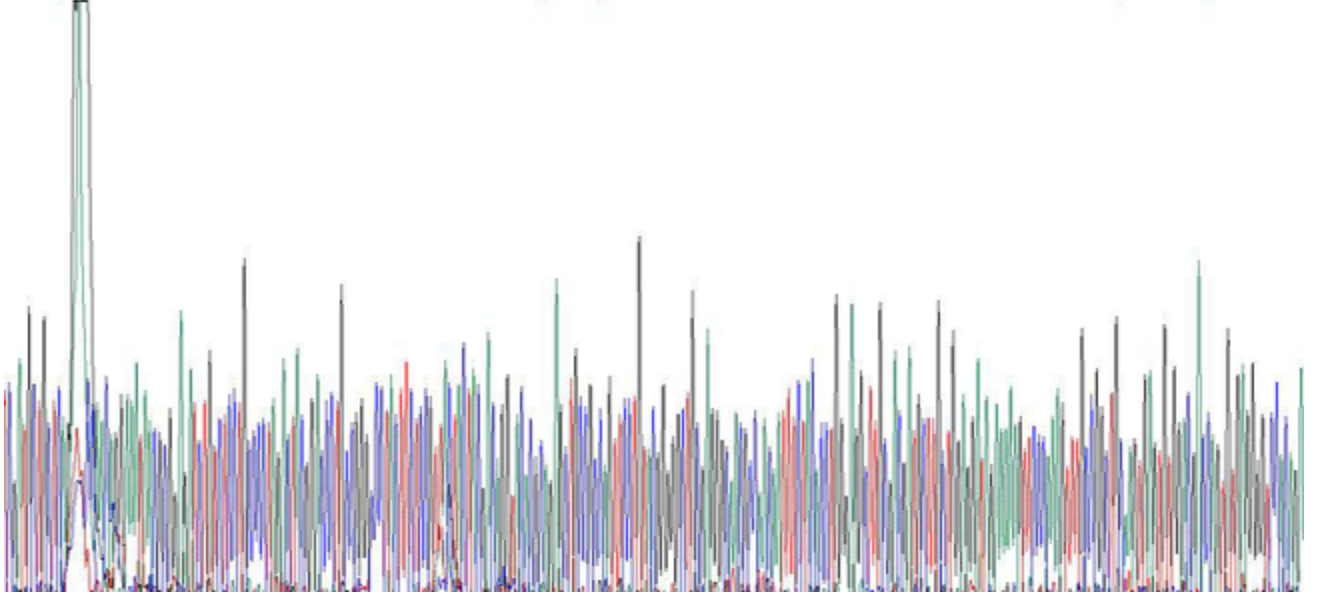
Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Image

DAAQEPICGHWAEICLLPLDYGFCHALLRYYTDRTYQSCRQFLYGGCEGNAHWFYIWEACDDACWRIEKVPRVCHLQVSVDDQCEGSTE



Gene sequencing

Image

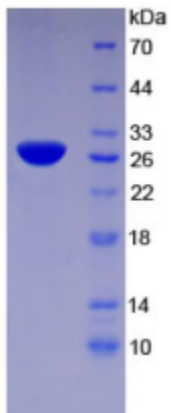


Figure. SDS-PAGE



WB Image

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.