**Human Tissue Factor Pathway Inhibitor ELISA Kit (TFPI) ab108904**

**Overview**

**Product name**
Human Tissue Factor Pathway Inhibitor ELISA Kit (TFPI)

**Detection method**
Colorimetric

**Precision**

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>4.8%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>7.4%</td>
</tr>
</tbody>
</table>

**Sample type**
Cell culture supernatant, Milk, Serum, Plasma

**Assay type**
Sandwich (quantitative)

**Sensitivity**
> 0.12 ng/ml

**Range**
0.313 ng/ml - 20 ng/ml

**Recovery**
96.5%

**Assay time**
5h 00m

**Assay duration**
Multiple steps standard assay

**Species reactivity**
Reacts with: Human

**Product overview**

Abcam’s Tissue Factor Pathway Inhibitor (TFPI) Human in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of Tissue Factor Pathway Inhibitor concentrations in plasma, serum, milk, cerebrospinal fluid and cell culture samples.

A Tissue Factor Pathway Inhibitor specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently a Tissue Factor Pathway Inhibitor specific biotinylated detection antibody is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Conjugate is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that
changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of Tissue Factor Pathway Inhibitor captured in plate.

Get results in 90 minutes with Human Tissue Factor Pathway Inhibitor ELISA Kit (ab188392) from our SimpleStep ELISA® range.

The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

**Platform**
Microplate

**Properties**

**Storage instructions**
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X Streptavidin-Peroxidase Conjugate</td>
<td>1 x 80μl</td>
</tr>
<tr>
<td>10X Diluent N Concentrate</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>2 x 30ml</td>
</tr>
<tr>
<td>50X Biotinylated Human Tissue Factor Pathway Inhibitor Antibody</td>
<td>1 x 120μl</td>
</tr>
<tr>
<td>Chromogen Substrate</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>Sealing Tapes</td>
<td>3 units</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Tissue Factor Pathway Inhibitor Microplate (12 x 8 well strips)</td>
<td>1 x 96 units</td>
</tr>
<tr>
<td>Tissue Factor Pathway Inhibitor Standard</td>
<td>2 vials</td>
</tr>
</tbody>
</table>

**Function**
Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. It possesses an antithrombotic action and also the ability to associate with lipoproteins in plasma.

**Tissue specificity**
Mostly in endothelial cells.

**Sequence similarities**
Contains 3 BPTI/Kunitz inhibitor domains.

**Domain**
This inhibitor contains three inhibitory domains. The first domain interacts with VIIa and TF, the second one with Xa.

**Post-translational modifications**
O-glycosylated.

**Cellular localization**
Secreted and Microsome membrane.
TFPI measured in various samples showing quantity (ng) per mL of tested sample

![Sandwich ELISA - ab108904 Tissue Factor Pathway Inhibitor (TFPI) Human ELISA Kit](image1)

Representative Standard Curve using ab108904.

![Typical Standard Curve](image2)

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