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.

Images
TFPI measured in various samples showing quantity (ng) per mL of tested sample

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

Representative Standard Curve using ab108904.

**Typical Standard Curve**

**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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