

TFPI2 Human

Description: TFPI2 Human Recombinant produced in plants is a single polypeptide chain containing 79 amino acids and having a total molecular mass of 9.3kDa. The TFPI2 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-867

For research use only.

Synonyms: TFPI-2, REF1, Placental protein 52.

Source: Nicotiana benthamiana

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

HHHHHHGAAQEPTGNNAEICLLPLDYGPCALLRYYDRYTQSCRQFLYGGCEGNANNFYTW
EACDDACWRIEKVPKV.

Purity: Greater than 97.0% as determined by SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing PBS pH-7.1.

Stability:

Lyophilized TFPI2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TFPI2 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized TFPI2 in sterile water & 50µg/ml BSA at a concentration of 1mg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

TFPI2 takes part in the regulation of plasmin-mediated matrix remodeling. Inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa. TFPI2 doesn't have any influence on thrombin.

Biological Activity:

The activity of the TFPI2 is expressed as the amount of trypsin inhibited per milligram of TFPI2. The ability to prevent the hydrolysis of benzoyl-L-arginine ethyl ester hydrochloride by trypsin is measured by spectrophotometer. 1mg TFPI2 protein will inhibit 1-1.5 mg trypsin with activity of approximately 10,000 BAEE units per mg protein.

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