

Datasheet for ABIN573781  
**TFPI2 Protein (His tag)**

## 2 Images

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## Overview

Quantity:	1 mg
Target:	TFPI2
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TFPI2 protein is labelled with His tag.
Application:	Functional Studies (Func)

## Product Details

Sequence:	HHHHHHGAAQ EPTGNNAEIC LLPLDYGPK ALLRYYYDR YQSCRQFLY GGCEGNANNF YTWEACDDAC WRIEKVPKV
Characteristics:	Molecular formula: C407H592N116O117S6. Isoelectric Point: 6,25. Extinction coefficient: E 0.1 % (1g/L) = 2.35 (A 280 nm). This product contains no animal-derived components or impurities. It is produced by transient expression in non-transgenic plants.
Purification:	Recombinant AGV212 includes a 6 His-tag at the N-terminal end, is purified by sequential chromatography (FPLC).
Purity:	> 97 % by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Endotoxin Level:	< 0.04 EU/µg protein (LAL method)

## Target Details

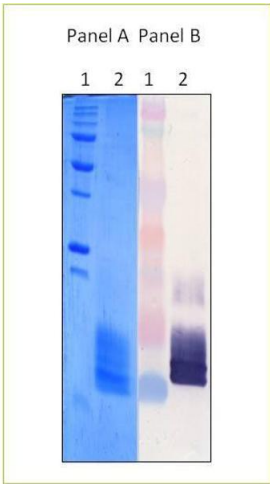
Target:	TFPI2
Alternative Name:	TFPI-2 ( <a href="#">TFPI2 Products</a> )
Background:	Recombinant human TFPI-2 doman 1 or AGV 212 is a protease inhibitor peptide generated from the first Kunitz domain of the human Tissue Factor Protein Inhibitor 2 (TFPI-2) protein, after site-directed mutagenesis to increase its activity. It is arranged in a single polypeptide chain that is linked by three disulfide bridges. AGV 212 is quite stable and inhibits trypsin with high efficiency and Ki lower than TFPI-2 one. TFPI-2 has been shown to inhibit Endothelial Cell Matrix (ECM) proteases essential for angiogenesis and metastasis.
Molecular Weight:	9.3 kDa

## Application Details

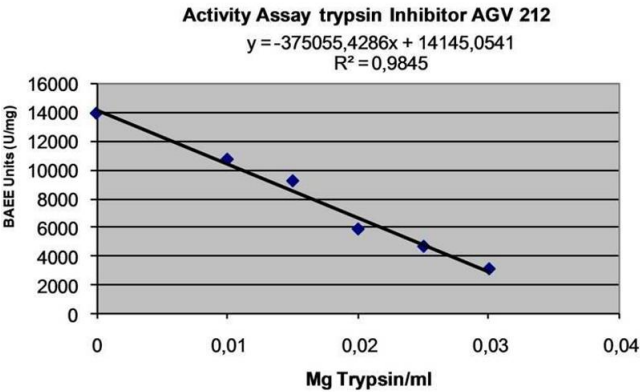
Application Notes:	The ability to prevent the hydrolysis of benzoyl-L-arginine ethyl ester hydrochloride by trypsin.
Comment:	<p>Biological Activity: The activity of the inhibitor is expressed as the amount of trypsin inhibited per milligram of inhibitor. The ability to prevent the hydrolysis of benzoyl-L-arginine ethyl ester hydrochloride by trypsin is measured by spectrophotometer. One mg protein will inhibit 1-1.5 mg trypsin with activity of approximately 1000 BAEE units per mg protein.</p> <p>Synonyms: First Kunitz domain of the human Tissue Factor Protein Inhibitor 2 (TFPI-2) protein, AGV 212</p>
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Lyophilized protein should be reconstituted adding 1 mL of sterile water to the vial, which gives a concentration of 1 mg of protease inhibitor per mL. At higher concentrations the solubility may be reduced and multimers generated. Optimal concentration should be determined for specific application and cell lines.
Concentration:	50 ng/μL
Buffer:	PBS, pH 7.1.
Storage:	4 °C



**Image 1.** Panel A show SDS-PAGE 15 % Coomassie Blue of AGV 212 trypsin inhibitor purified by Gel filtration. Lane 1: Precision Plus Protein Standards cat 161-0363 BIORAD, lane 2: AGV 212 1mg/mL. Panel B show lane 1: Kaleidoscope Prestained Standards cat 161-0324 BIORAD, lane 2: the same samples analyzed by Western Blot with specific antiserum. All bands observed shown the same peptide mass finger printing pattern, corresponding to AGV212. Post-translational modifications do exist among the different bands nevertheless they do not alter their activity



**Image 2.** The activity of the inhibitor is expressed as the amount of trypsin inhibited per milligram of inhibitor. The ability to prevent the hydrolysis of benzoyl-L-arginine ethyl ester hydrochloride by trypsin is measured by spectrophotometer. One mg protein will inhibit 1-1.5 mg trypsin with activity of approximately 10, 000 BAEE units per mg protein.