

Datasheet for ABIN7597353

**Tissue factor Protein (AA 33-252) (His tag)**[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	Tissue factor (F3)
Protein Characteristics:	AA 33-252
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tissue factor protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Cynomolgus CD142 protein with C-terminal 10xHis tag
Sequence:	CD142(Ser33-Glu252) 10xHis tag
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	Tissue factor (F3)
Alternative Name:	CD142 ( <a href="#">F3 Products</a> )
Background:	<p>TF, TFA, F3</p> <p>This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is</p>

## Target Details

responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces, for example, on monocytes. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. Platelets and monocytes have been shown to express this coagulation factor under procoagulatory and proinflammatory stimuli, and a major role in HIV-associated coagulopathy has been described. Platelet-dependent monocyte expression of coagulation factor III has been described to be associated with Coronavirus Disease 2019 (COVID-19) severity and mortality. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Aug 2020]

Molecular Weight:	predicted molecular mass of 26.4 kDa after removal of the signal peptide. The apparent molecular mass of cCD142-His is 35-55 kDa due to glycosylation.
UniProt:	<a href="#">A0A2K5VX02</a>
Pathways:	<a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Platelet-derived growth Factor Receptor Signaling</a>

## Application Details

Application Notes:	Extracellular Domain Proteins (ECD) can be used as: <ul style="list-style-type: none"><li>• Immunogens for antibody drug development</li><li>• Reagents used for CAR-T positive cell monitoring</li><li>• Reagents for antibody screening and functional testing</li><li>• Reagents for antibody affinity measurement</li></ul>
Comment:	The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C

## Handling

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Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

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