

## Product datasheet

# Recombinant human TPA Tissue Plasminogen Activator protein ab68107

### 製品の概要

製品名	Recombinant human TPA Tissue Plasminogen Activator protein
タンパク質長	Full length protein

### 製品の詳細

由来	Recombinant
由来	CHO cells
アミノ酸配列	
生物種	Human

### 特性

Our [Abpromise guarantee](#) covers the use of **ab68107** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	Tissue Plasminogen Activator Human Recombinant (ab68107) produced in CHO cells is a single, glycosylated polypeptide chain containing 527 amino acids and having a molecular mass of 59008.71 Dalton. Enzymatic Activity: 580,000 IU/mg.
アプリケーション	SDS-PAGE
精製度	> 95 % SDS-PAGE. ab68107 was purified by proprietary chromatographic techniques. Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
製品の状態	Lyophilised
備考	Upon reconstitution this protein 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).

### 前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Each mg of t-PA contains 1.7 gr L-arginine, 0.5 gr phosphoric acid and 4 mg tween 80.
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

**再構成** Reconstitute in sterile 18M Ohms/cm water to not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

## 関連情報

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**機能** Converts the abundant, but inactive, zymogen plasminogen to plasmin by hydrolyzing a single Arg-Val bond in plasminogen. By controlling plasmin-mediated proteolysis, it plays an important role in tissue remodeling and degradation, in cell migration and many other physiopathological events. Play a direct role in facilitating neuronal migration.

**組織特異性** Synthesized in numerous tissues (including tumors) and secreted into most extracellular body fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk.

**関連疾患** Note=Increased activity of TPA results in increased fibrinolysis of fibrin blood clots that is associated with excessive bleeding. Defective release of TPA results in hypofibrinolysis that can lead to thrombosis or embolism.

**配列類似性** Belongs to the peptidase S1 family.  
Contains 1 EGF-like domain.  
Contains 1 fibronectin type-I domain.  
Contains 2 kringle domains.  
Contains 1 peptidase S1 domain.

**ドメイン** Both FN1 and one of the kringle domains are required for binding to fibrin.  
Both FN1 and EGF-like domains are important for binding to LRP1.  
The FN1 domain mediates binding to annexin A2.  
The second kringle domain is implicated in binding to cytokeratin-8 and to the endothelial cell surface binding site.

**翻訳後修飾** The single chain, almost fully active enzyme, can be further processed into a two-chain fully active form by a cleavage after Arg-310 catalyzed by plasmin, tissue kallikrein or factor Xa. Differential cell-specific N-linked glycosylation gives rise to two glycoforms, type I (glycosylated at Asn-219) and type II (not glycosylated at Asn-219). The single chain type I glycoform is less readily converted into the two-chain form by plasmin, and the two-chain type I glycoform has a lower activity than the two-chain type II glycoform in the presence of fibrin. N-glycosylation of Asn-152; the bound oligomannosidic glycan is involved in the interaction with the mannose receptor. Characterization of O-linked glycan was studied in Bowes melanoma cell line.

**細胞内局在** Secreted > extracellular space.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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