

Product datasheet

Recombinant human PAI1 (mutated N150 H + K154 T + Q319 L + M354 I) protein ab92969

1 图像

概述

产品名称	重组人PAI1 (mutated N150 H + K154 T + Q319 L + M354 I)蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli
氨基酸序列	
种属	Human

技术指标

Our [Abpromise guarantee](#) covers the use of **ab92969** in the following tested applications.

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

生物活性	>95% active by uPA titration. Kinetic Data: Second order rate constants for inhibition of: uPA = $5.1 \times 10^6 \text{ M}^{-1}\text{s}^{-1}$ tPA = $7.9 \times 10^5 \text{ M}^{-1}\text{s}^{-1}$
应用	SDS-PAGE Functional Studies
纯度	> 95 % SDS-PAGE. > 99% pure by SDS PAGE
形式	Liquid
补充说明	Solubility: > 2 mg/mL and < 5 mg/mL Ultraviolet: Absorbance (280nm) = 2.5 epsilon ^{0.1%} = 1.0

ab92969 contains the following four mutations: K154T, Q319L, M354I and N150H. These mutations combine to confer great stability to the otherwise labile molecule essentially locking in into the active conformation. It is an ideal choice for in vivo studies.

制备和贮存

稳定性和存储

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 50mM Sodium phosphate, 100mM Sodium chloride, 1mM EDTA, pH 6.6

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能

This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis.

组织特异性

Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.

疾病相关

Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1D) [MIM:613329]. It is a hematologic disorder characterized by increased bleeding after trauma, injury, or surgery. Affected females have menorrhagia. The bleeding defect is due to increased fibrinolysis of fibrin blood clots due to deficiency of plasminogen activator inhibitor-1, which inhibits tissue and urinary activators of plasminogen.

Note=High concentrations of SERPINE1 seem to contribute to the development of venous but not arterial occlusions.

序列相似性

Belongs to the serpin family.

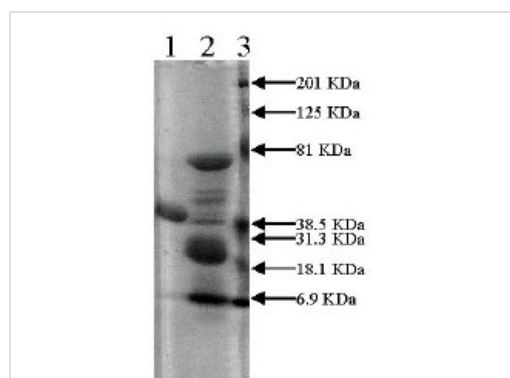
翻译后修饰

Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg-Met-370 bond.

细胞定位

Secreted.

图片



SDS-PAGE - PAI1 protein (Mutated K154T + Q319L + M354I + N150H) (Active) (ab92969)

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