

## Product datasheet

# Natural Human HMW Kininogen protein ab90353

### 製品の概要

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製品名	Natural Human HMW Kininogen protein
タンパク質長	Full length protein

### 製品の詳細

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由来	Native
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アミノ酸配列	
生物種	Human

### 特性

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Our [Abpromise guarantee](#) covers the use of **ab90353** in the following tested applications.

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

アプリケーション	SDS-PAGE
精製度	> 95 % SDS-PAGE.
製品の状態	Liquid

### 前処理および保存

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保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 250mM Sodium chloride, 10mM Sodium acetate, pH 5.5
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### 関連情報

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機能	(1) Kininogens are inhibitors of thiol proteases; (2) HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII; (3) HMW-kininogen inhibits the thrombin- and plasmin-induced aggregation of thrombocytes; (4) the active peptide bradykinin that is released from HMW-kininogen shows a variety of physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of hypotension, (4C)
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natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived relaxing factor action); (5) LMW-kininogen inhibits the aggregation of thrombocytes; (6) LMW-kininogen is in contrast to HMW-kininogen not involved in blood clotting.

**組織特異性**

Secreted in plasma. T-kinin is detected in malignant ovarian, colon and breast carcinomas, but not in benign tumors.

**関連疾患**

Defects in KNG1 are the cause of high molecular weight kininogen deficiency (HMWK deficiency) [MIM:228960]. HMWK deficiency is an autosomal recessive coagulation defect. Patients with HMWK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis.

**配列類似性**

Contains 3 cystatin domains.

**翻訳後修飾**

Bradykinin is released from kininogen by plasma kallikrein.  
Hydroxylation of Pro-383 occurs prior to the release of bradykinin.  
Phosphorylation sites are present in the extracellular medium.  
N- and O-glycosylated. O-glycosylated with core 1 or possibly core 8 glycans.

**細胞内局在**

Secreted > extracellular space.

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