

# Recombinant human MMP14 protein (Active) ab157068

| 描述        |  |
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| 产品名称      | 重组人MMP14蛋白(Active)   |
| 生物活性      | <p>≥140mU/mg protein.</p> <p>One unit is defined as the amount of enzyme that hydrolyzes 1μmol Mca-Pro-LeuGly-Leu-Dpa-Ala-Arg-NH2 per min. at 37°C, pH 7.5</p>   |
| 纯度        | > 90 % SDS-PAGE.   |
| 表达系统      | Escherichia coli   |
| Accession | <b><u>P50281</u></b>   |
| 蛋白长度      | Protein fragment   |
| 无动物成分     | No   |
| 性质        | Recombinant  |
| 种属        | Human  |
| 序列        | <p>YAIQGLKWQHN EITFCIQNYT PKVGEYATYE</p> <p>AIRKAFRVWE SATPLRFREV PYAYIREGHE</p> <p>KQADIMIFFA EGFHGDSTPF DGEGGFLAHA</p> <p>YFPGPNIGGD THFDSAEPWT VRNEDLNGND</p> <p>IFLVAVHELG HALGLEHSSD PSAIMAPFYQ</p> <p>WMDTENFVLP DDDRRGIQQL YGGESG</p> |
| 预测分子量     | 20 kDa   |
| 氨基酸       | 112 to 288   |

| 技术指标   |   |
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| Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab157068</b> in the following tested applications.                        |   |
| The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user. |   |
| 应用   | <p>Functional Studies</p> <p>SDS-PAGE</p>   |
| 形式   | Liquid  |
| 补充说明   | <b>Inhibitors:</b> The catalytic domain of MMP-14 is inhibited by tissue inhibitors of MMP-2 and -3 (TIMP-2 and TIMP-3) and by chelators of divalent cations like EDTA or o-phenanthroline. |

## 制备和贮存

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### 稳定性和存储

Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

Constituents: 0.06% Calcium chloride, 0.79% Tris HCl, 0.87% Sodium chloride

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

## 常规信息

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### 功能

Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton reorganization by cleaving PTK7.

### 组织特异性

Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.

### 序列相似性

Belongs to the peptidase M10A family.

Contains 4 hemopexin-like domains.

### 结构域

The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

### 翻译后修饰

The precursor is cleaved by a furin endopeptidase.

### 细胞定位

Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

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