

Recombinant human MMP1 protein (Active) ab198437

2 图像

描述	
产品名称	重组人MMP1蛋白(Active)
生物活性	<p>≥ 105 pmole/min/μg.</p> <p>Activation: This is a proform enzyme and requires activation prior to testing activity. Dilute the enzyme to 100 ng/ml in a solution containing 50 mM HEPES, pH 7.4, 10 mM CaCl2, 0.05% Brij-35, and 1 mM APMA (amino-phenyl mercuric acetate). Incubate at 37°C for 2 hours.</p> <p>Assay conditions: Reaction mixture with 10 μM 390 MMP substrate 1. Incubate for 30 minutes at room temperature. Fluorescence intensity is measured at exc328/em393.</p>
纯度	> 90 % SDS-PAGE.
表达系统	HEK 293 cells
Accession	P03956
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<p>FPATLETQEQDVDLVQKYLEKYYNLKNDGRQVEKRRNSGPVV</p> <p>EKLKQMQE</p> <p>FFGLKVTGKPDAETLKVMKQPRCGVPDVAQFVLTEGNPRWEQ</p> <p>THLTYRIE</p> <p>NYTPDLPRADVDHAIEKAFQLWSNVTPLTFTKVSEGGADIMI</p> <p>SFVRGDHR</p> <p>DNSPFDGPGGNLAHAFQPGPGIGGDAHFEDEDERWTNNFREYN</p> <p>LHRVAAHE</p> <p>LGHSLGLSHSTDIGALMYPSTYFSGDVQLAQDDIDGIQAIYG</p> <p>RSQNPVQP</p> <p>IGPQTPKACDSKLTFDAITIRGEVMFFKDRFYMRTNPFYPE</p> <p>VELNFISV</p> <p>FWPQLPNGLEAAYEFADRDEVRFKGNKYWAVQGQNVLHGYP</p> <p>KDIYSSFG</p> <p>FPRTVKHIDAALSEENTGKTYFFVANKYWRYDEYKRSMDPGY</p> <p>PKMIAHDF</p> <p>PGIGHKVDAVFMKDGFFYFFHGTRQYKFDPKTKRILTLQKAN</p> <p>SWFNCRKN HHHHHHHHHH</p>

预测分子量	53 kDa including tags
氨基酸	20 to 469
标签	His tag C-Terminus
额外的序列信息	This product is for the mature full length protein from aa 20 to 469. The signal peptide is not included.

技术指标

Our **Abpromise guarantee** covers the use of **ab198437** in the following tested applications.

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

应用	SDS-PAGE
	Functional Studies
形式	Liquid

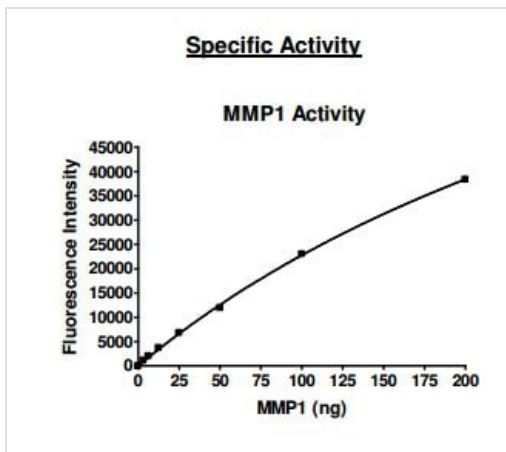
制备和贮存

稳定性和存储	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 1.36% Imidazole Constituents: 0.64% Tris HCl, 0.64% Sodium chloride, 0.017% Potassium chloride, 20% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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常规信息

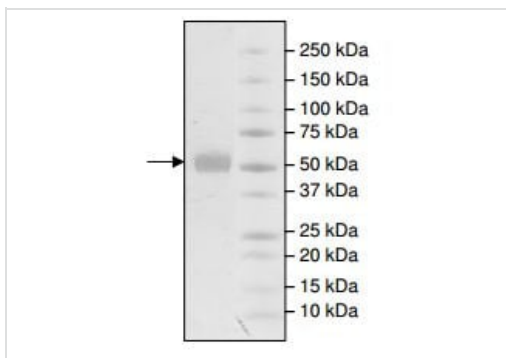
功能	Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity.
序列相似性	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
结构域	There are two distinct domains in this protein; the catalytic N-terminal, and the C-terminal which is involved in substrate specificity and in binding TIMP (tissue inhibitor of metalloproteinases). 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	Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase.
细胞定位	Secreted > extracellular space > extracellular matrix.

图片



Activity assay of ab198437.

Functional Studies - Recombinant human MMP1 protein (Active) (ab198437)



4-20% SDS-PAGE analysis of 2.4 µg ab198437 with Coomassie staining.

SDS-PAGE - Recombinant human MMP1 protein (Active) (ab198437)

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

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