

Recombinant human MMP1 protein ab124850

1 References

描述

产品名称	重组人MMP1蛋白
生物活性	<p>The activity was measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH₂.</p> <p>The specific activity is > 400 pmoles/min/μg.</p> <p>Recombinant Human MMP-1 protein pro form needs to be activated with p-aminophenylmercuric acetate (APMA).</p> <p>Activation Protocol:</p> <ol style="list-style-type: none"> 1. Dilute MMP1 to 50μg/ml in the Assay Buffer: 50mM Tris, 10mM CaCl₂, 150mM NaCl, 0.05% (w/v) and Brij 35, pH 7.5. 2. Activate MMP1 by adding APMA to a final concentration of 1mM. 3. Incubate at 37°C for 2 hours.
纯度	<p>> 95 % SDS-PAGE.</p> <p>ab124850 is purified by proprietary chromatographic techniques and 0.2μm sterile filtered.</p>
表达系统	HEK 293 cells
Accession	<u>P03956</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<pre> MHSFPPLLLL LFWGVVSHSF PATLETQEQD VDLVQKYLEK YYNLKNDGRQ VEKRRNSGPV VEKLLKQMFEF FGLKVTGKPD AETLKVMKQP RCGVDPVAQF VLTEGNPRWE QTHLTYRIEN YTPDLPRADV DHAIEKAFQL WSNVTPLTFT KVSEGGADIM ISFVRGDHRD NSPFDGPGGN LAHAFQPGPG IGGDAHFEDE ERWTNNFREY NLHRVAAHEL GHSLGLSHST DIGALMYPST TFSGDVQLAQ DDIDGIQAIY GRSQNPVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR FYMRTNPFYP EVELNFISVF WPQLPNGLEA AYEFADRDEV RFFKGNKYWA VQGQNVLHGY PKDIYSSFGF PRTVKHIDAA LSEENTGKTY FFVANKYWRY DEYKRSMDPG YPKMIAHDFP </pre>

GIGHKVDAVF MKDGGFFYFFH GTRQYKFDPK
TKRILTLQKA NSWFNCRKN

预测分子量	52 kDa including tags
氨基酸	1 to 469
标签	His tag C-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab124850** 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 at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Constituents: MES, Brij, Glycerol, Sodium chloride 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.

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