abcam

Product datasheet

Recombinant human MMP13 protein ab134452

1 References　画像数 1

製品の詳細

製品名	Recombinant human MMP13 protein
生理活性	The specific activity is >0.5 U/mg. 1 U is the activity that hydrolyzes 1 mmol peptide (7-methoxycoumarin-4-yl) acetyl-Pro-Leu-Gly-Leu-(3-[2, 4-dinitrophenyl]-L-2, 3-diamino-propionyl)-Ala-Arg-NH2 (Mca-Pro-Leu-Gly-Leu-Dpa-Ala-Arg) within 1 min.
精製度	> 90 % SDS-PAGE.
発現系	Escherichia coli
アクセッション番号	P45452
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	YNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVW SDVTPLNF TRLHDGIADIMISFGIKEHGDFYPFDGPSGLLAHAFPPGPNY GGDAHFDD DETWTSSSKGYNLFLVAAHEFGHSLGLDHSKDPGALMFPIYT YTGKSHFM LPDDDVQGIQSLYGPGDEDPN
予測される分子量	19 kDa
領域	104 to 274

特性

Our **Abpromise guarantee** covers the use of **ab134452** 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
	Functional Studies
製品の状態	Liquid

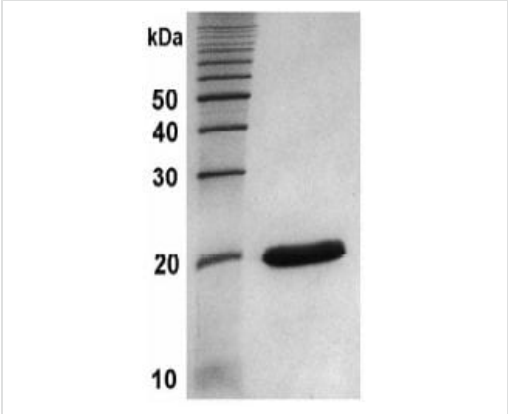
前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.05% Calcium chloride, 0.79% Tris HCl, 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能	Degrades collagen type I. Does not act on gelatin or casein. Could have a role in tumoral process.
組織特異性	Seems to be specific to breast carcinomas.
関連疾患	Defects in MMP13 are the cause of spondyloepimetaphyseal dysplasia Missouri type (SEMD-MO) [MIM:602111]. A bone disease characterized by moderate to severe metaphyseal changes, mild epiphyseal involvement, rhizomelic shortening of the lower limbs with bowing of the femora and/or tibiae, coxa vara, genu varum and pear-shaped vertebrae in childhood. Epimetaphyseal changes improve with age. Defects in MMP13 are the cause of metaphyseal anadysplasia type 1 (MANDP1) [MIM:602111]. Metaphyseal anadysplasia consists of an abnormal bone development characterized by severe skeletal changes that, in contrast with the progressive course of most other skeletal dysplasias, resolve spontaneously with age. Clinical characteristics are evident from the first months of life and include slight shortness of stature and a mild varus deformity of the legs. Patients attain a normal stature in adolescence and show improvement or complete resolution of varus deformity of the legs and rhizomelic micromelia.
配列類似性	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
ドメイン	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.
細胞内局在	Secreted > extracellular space > extracellular matrix.

画像



SDS-PAGE - Recombinant human MMP13 protein (ab134452)

SDS-PAGE analysis of ab134452 (4µg).

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