abcam

Product datasheet

Recombinant Human TGF beta 1 protein ab130946

製品の詳細

製品名	Recombinant Human TGF beta 1 protein
精製度	> 98 % SDS-PAGE. > 98% by HPLC
発現系	HEK 293 cells
アクセッション番号	**P01137**
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	ALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHAN FCLGPCPY IWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYV GRKPKVEQ LSNMIVRSCKCS
予測される分子量	13 kDa
領域	279 to 390

特性

Our **Abpromise guarantee** covers the use of **ab130946** 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 HPLC
製品の状態	Lyophilized

前処理および保存

保存方法および安定性	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Constituent: 0.1% Trifluoroacetic acid
再構成	Resuspend in 10 mM citric acid pH 3.0 to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage dilute further in a buffer containing a carrier protein (for example 0.1% BSA). Store reconstituted protein at -20°C. Avoid repeated thawing and freezing.

関連情報

機能	Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts.
組織特異性	Highly expressed in bone. Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis (OA). Co-localizes with ASPN in chondrocytes within OA lesions of articular cartilage.
関連疾患	Defects in TGFB1 are the cause of Camurati-Engelmann disease (CE) [MIM:131300]; also known as progressive diaphyseal dysplasia 1 (DPD1). CE is an autosomal dominant disorder characterized by hyperostosis and sclerosis of the diaphyses of long bones. The disease typically presents in early childhood with pain, muscular weakness and waddling gait, and in some cases other features such as exophthalmos, facial paralysis, hearing difficulties and loss of vision.
配列類似性	Belongs to the TGF-beta family.
翻訳後修飾	Glycosylated. The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to mature TGF-beta-1 rendering it inactive.
細胞内局在	Secreted > extracellular space > extracellular matrix.

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