

Recombinant human TGF beta 1 protein (Active) ab50038

★★★★★ [1 Abreviews](#) [1 References](#)

製品の詳細

製品名	Recombinant human TGF beta 1 protein (Active)
生理活性	The ED₅₀ , as determined by TGF beta 1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells, is ≤ 0.05 ng/ml, corresponding to a specific activity of $>2 \times 10^7$ units/mg
精製度	> 98 % SDS-PAGE. >98% HPLC analyses.
エンドトキシン・レベル	< 1.000 Eu/ μ g
発現系	CHO cells
アクセッション番号	<u>P01137</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CSSSALDTNY CFSSTEKNCC VRQLYIDFRK DLGWKWIHEP KGYHANFCLG PCPYIWSLDT QYSKVLALYN QHNPGASAAP CCVPQALEPL PIVYYVGRKP KVEQLSNMIV RSCKCS
予測される分子量	25 kDa
領域	279 to 390
配列の追加情報	ab50038 is composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond. It is the mature protein after cleavage of the signal peptide and latency-associated peptide.

特性

Our **Abpromise guarantee** covers the use of **ab50038** 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 HPLC

	SDS-PAGE
	Functional Studies
製品の状態	Lyophilized
前処理および保存	
保存方法および安定性	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C..</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
再構成	<p>Centrifuge the vial prior to opening. For lot GR18648 Reconstitute in 10mM Citric Acid, pH 3.0 to 0.1-1.0 mg/ml. For all other lots reconstitute in water to a concentration of 0.1- 1.0 mg/ml. Do not vortex. If you have any questions regarding the reconstitution of ab50038 please contact scientific support.</p>
関連情報	
機能	<p>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.</p>
組織特異性	<p>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.</p>
関連疾患	<p>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.</p>
配列類似性	<p>Belongs to the TGF-beta family.</p>
翻訳後修飾	<p>Glycosylated.</p> <p>The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to mature TGF-beta-1 rendering it inactive.</p>
細胞内局在	<p>Secreted > extracellular space > extracellular matrix.</p>

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