

Recombinant human TGF beta 1 protein (Active) ab50038

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

描述

产品名称	重组人TGF beta 1蛋白(Active)
生物活性	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 x 10 ⁷ units/mg
纯度	> 98 % SDS-PAGE. >98% HPLC analyses.
内毒素水平	< 1.000 Eu/μg
表达系统	CHO cells
Accession	<u>P01137</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CSSSALDTNY CFSSTEKNCC VRQYIDFRK DLGKWIHEP KGYHANFCLG PCPYIWSLDT QYSKVLALYN QHNPGASAAP CCVPQALEPL PIVYYVGRKP KVEQLSNMIV RSCKCS
预测分子量	25 kDa
氨基酸	279 to 390
额外的序列信息	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.

技术指标

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.

应用 HPLC

SDS-PAGE
Functional Studies

形式 Lyophilized

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 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..

This product is an active protein and may elicit a biological response in vivo, handle with caution.

复溶 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.

常规信息

功能 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.

组织特异性 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.

疾病相关 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.

序列相似性 Belongs to the TGF-beta family.

翻译后修饰 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.

细胞定位 Secreted > extracellular space > extracellular matrix.

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

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