

Recombinant human TGF beta 1 protein (Active) ab116150

[1 References](#) [2 图像](#)

描述

产品名称	重组人TGF beta 1蛋白(Active)
生物活性	Method of determination: Inhibition of IL-4-induced HT-2 cell proliferation Acceptance criteria: ED ₅₀ ≤500 pg/mL (≥ 2.0 x 10 ⁶ units/mg) The activity of Human TFG-beta is 2.2 x 10 ⁴ RU/μg, which was calibrated against recombinant human TGF-beta 1.
纯度	> 95 % SDS-PAGE. Protein content and purity was determined by UV spectroscopy at 280 nm; RP-HPLC calibrated against a known standard and quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.
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 CSALDTNYCF SSTEKNCCVR QLYIDFRKDL GWKWIHEPKG YHANFCLGPC PYIWSLDTQY SKVLALYNQH NPGASAPCC VPQALEPLPI VYYVGRKPKV EQLSNMIVRS CKCS
预测分子量	26 kDa
氨基酸	279 to 390

技术指标

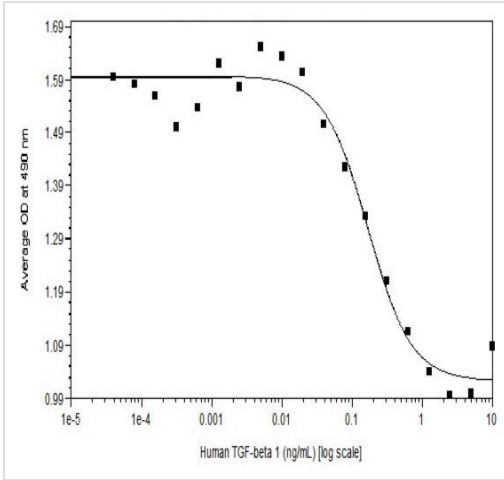
Our **Abpromise guarantee** covers the use of **ab116150** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

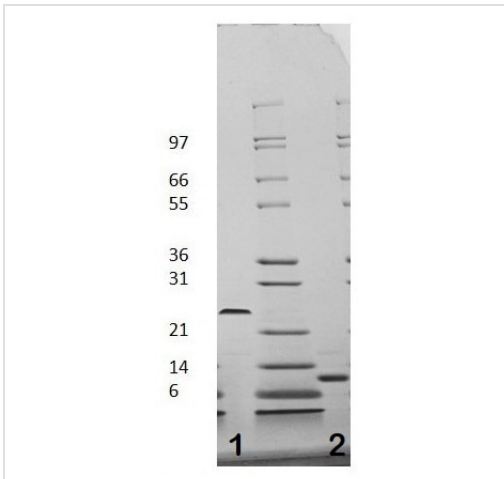
应用	HPLC Functional Studies SDS-PAGE
形式	Lyophilized
补充说明	Endotoxin levels determined by LAL method. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.
制备和贮存	
稳定性和存储	Shipped at Room Temperature. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). Constituents: 0.1% Trifluoroacetic acid, 95% Trehalose Lyophilized from a sterile (0.2 micron) filtered aqueous solution. This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	ab116150 should be reconstituted with sterile 10 mM HCl at a concentration of 0.1 mg/ml. When reconstituting the product, gently pipette and wash down the sides of the vial to ensure full recovery of the protein into solution. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.
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.

图片

ab116150 Inhibited HT-2 Proliferation.



Functional Studies - Recombinant human TGF beta 1 protein (Active) (ab116150)



1ug of ab116150 on 4-20% Tris-Glycine ge;, stained with Coomassie Blue.

Lane 1: Non-reduced

Lane 2: Reduced.

SDS-PAGE - Recombinant human TGF beta 1 protein (Active) (ab116150)

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