Product datasheet

Recombinant Rat TGF beta 1 protein (His tag) ab268004

2 图像

描述

产品名称
重组大鼠TGF beta 1蛋白(His tag)

纯度
> 85 % SDS-PAGE.

表达系统
Mammalian

Accession
P17246

蛋白长度
Protein fragment

无动物成分
No

性质
Recombinant

种属
Rat

序列
LSTCKTIDMELVKRKRHEAIRGQILSKLRASPPSQGEVPGPLPEAVLA
LYNSTRDRVGESADPEPEADYYAKEVTRVMVARNNAIY
DKTKDITH
SIYMFNTSDIREAVPPPLSRAELRLQRFKSTVEQHVELY
QKYSNNSW
RYLGNRLTLTPTDTEWLSFDTGVVRQWLNQGDIQFRFSA
HCSCDSKD
NVLHVEINGISPKRRDGLGTIHMNRPPLLMTPLERAQLH
HSSRHR

预测分子量
44 kDa

氨基酸
30 to 278

标签
His tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of ab268004 in the following tested applications.

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

应用
Mass Spectrometry

形式
SDS-PAGE

Liquid
### 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.

pH: 7.2  
Constituents: PBS, 6% Trehalose 

Lyophilized from.

### 功能

Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFβ1 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 TGFβ1 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.
Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of ab268004 could indicate that this peptide derived from Mammalian Cell-expressed Rattus norvegicus (Rat) TGF beta 1.

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