

Transforming Growth Factor Beta 3 (TGFb3) Active Protein | TGFb3 active protein

Active Transforming Growth Factor Beta 3 (TGFb3)

CATALOG # AAA152205	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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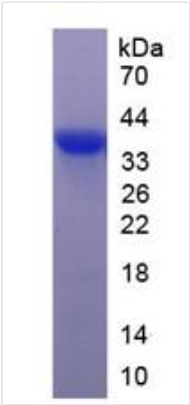
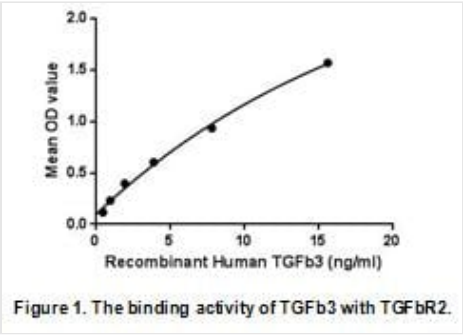
PRODUCT SYNONYMS

Transforming Growth Factor Beta 3 (TGFb3); Active Transforming Growth Factor Beta 3 (TGFb3); TGFb3/Transforming Growth Factor Beta 3; TGF-B3; LAP; Latency-associated peptide; TGFb3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. Freeze-dried powder
Sequence	Leu24~Arg300
Applicable Applications for TGFb3 active protein	Activity Assay, Cell Culture
Species	Human
Isoelectric Point	8.9
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES



Bioactivity

Transforming growth factor beta-3 (TGFb3) is a type of protein, known as a cytokine, which is involved in cell differentiation, embryogenesis and development. It belongs to a large family of cytokines called the Transforming growth factor beta superfamily. TGFb3 is believed to regulate molecules involved in cellular adhesion and extracellular matrix (ECM) formation during the process of palate development. It also plays an essential role in controlling the development of lungs in mammals, by also regulating cell adhesion and ECM formation in this tissue, and controls wound healing by regulating the movements of epidermal and dermal cells in injured skin. Besides, Transforming Growth Factor Beta Receptor II (TGFbR2) has been identified as an interactor of TGFb3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TGFb3 and recombinant human TGFbR2. Briefly, TGFb3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to TGFbR2-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-TGFb3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TGFb3 and TGFbR2 was shown in Figure 1, and this effect was in a dose dependent manner.

SDS-PAGE
SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for TGFb3 active protein	Cytokine; Tumor immunity; Infection immunity; Active proteins/AP
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507465
NCBI GeneID	7043
NCBI Accession #	NP_003230.1
NCBI GenBank Nucleotide #	NM_003239.2
UniProt Accession #	P10600
Molecular Weight	47,328 Da
NCBI Official Full Name	transforming growth factor beta-3 preproprotein
NCBI Official Synonym Full Names	transforming growth factor, beta 3
NCBI Official Symbol	TGFB3
NCBI Official Synonym Symbols	ARVD; TGF-beta3
NCBI Protein Information	transforming growth factor beta-3; TGF-beta-3
UniProt Protein Name	Transforming growth factor beta-3
UniProt Gene Name	TGFB3
UniProt Synonym Gene Names	TGF-beta-3; LAP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/transforming-growth-factor-beta-3-tgfb3/152205>