

TGF-alpha Active Protein | TGFA active protein

TGF-alpha Protein, Human, Recombinant

CATALOG #
AAA257972

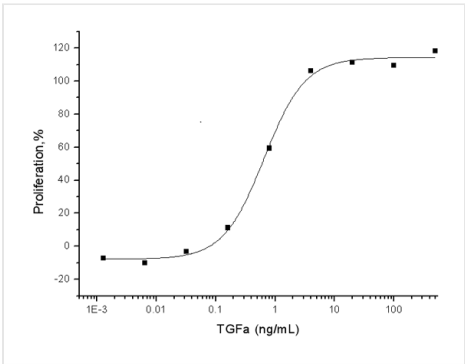
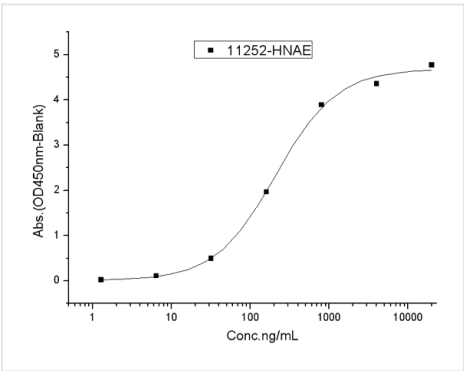
HOST
E Coli

PRODUCT SYNONYMS

TGF-alpha; TGF-alpha Protein; Human; Recombinant; Human TGFA/TGF-alpha Protein; TFGA Protein; TGFa Protein; transforming growth factor alpha; TGFA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Val40-Ala8 9
Species	Human
Predicted N Terminal	Met
Tag	Native
Protein Construction	A DNA sequence encoding the human TGFa (P01135-1)(Val40-Ala89) was expressed and purified.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1.Measured by its binding ability in a functional ELISA. Immobilized Human TGF-alpha at 2ug/ml (100uL/well) can bind Human EGFR hFc. The EC50 of Human EGFR hFc is 80-500ng/mL. 2. Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.5-2.5ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

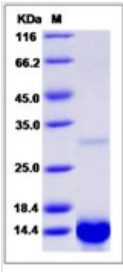


Application Data

Measured by its binding ability in a functional ELISA. Immobilized Human TGF-alpha at 2 ug/ml (100 ul/well) can bind Human EGFR hFc, the EC50 of Human EGFR hFc is 80-500 ng/mL.

Application Data

Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.5-2.5 ng/mL.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TGFA active protein

Background: The miR-137 served as a tumor suppressor in non-small cell lung cancer (NSCLC) and its suppressive effect is mediated by repressing TGFA expression. TGFA gene expression was significantly higher in tumor tissues compared to adjacent normal tissue and high TGFA gene expression strongly correlated with poor survival in patients with lung adenocarcinoma, and miR-374a suppresses lung adenocarcinoma cell proliferation and invasion via targeting TGFA gene expression. Transforming growth factor alpha (TGFA) is a well-characterized mammalian growth factor that might contribute to the development of Cleft lip and palate (CL/P).

NCBI AND UNIPROT INFORMATION

NCBI GI #	153791414
NCBI GeneID	7039
NCBI Accession #	NP_001093161.1
NCBI GenBank Nucleotide #	NM_001099691.2
UniProt Accession #	P01135; Q15577; Q53SK7; Q9BS56; Q9UEI3; Q9UKM1; Q9UKM2; Q9UKM3; A8K286
Molecular Weight	17,006 Da
NCBI Official Full Name	protransforming growth factor alpha isoform 2 preproprotein
NCBI Official Synonym Full Names	transforming growth factor, alpha
NCBI Official Symbol	TGFA
NCBI Official Synonym Symbols	TFGA
NCBI Protein Information	protransforming growth factor alpha; TGF-alpha
UniProt Protein Name	Protransforming growth factor alpha

UniProt Gene Name	TGFA
UniProt Synonym Gene Names	TGF-alpha; ETGF
UniProt Entry Name	TGFA_HUMAN

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-tgfa-active-protein/tgf-alpha/257972>