

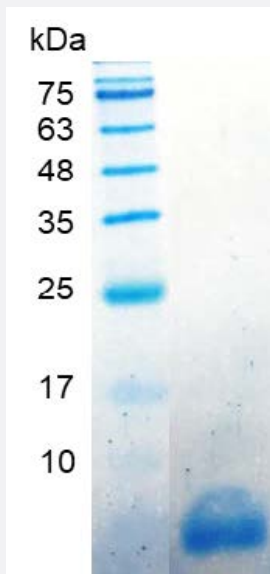
Bioactive

TGFA (Human) Recombinant Protein

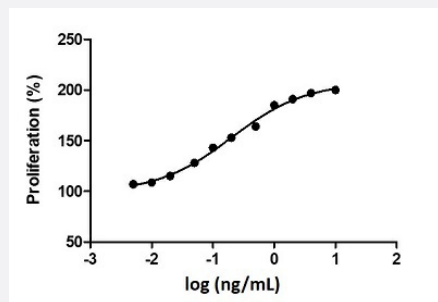
Catalog # P7855

Size 20 ug

Applications



SDS-PAGE analysis of TGFA (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human TGFA recombinant protein with polyhistidine tag at the C-terminus expressed in <i>Escherichia coli</i> .
Sequence	MVVSHFNDPCDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA with polyhistidine tag at the C-terminus.
Host	<i>Escherichia coli</i>

Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ni-NTA chromatography
Purity	> 98% as determined by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ ug of protein by the LAL method.
Activity	ED ₅₀ < 0.2 ng/mL, Measured by the induction of 3T3 cells proliferation. The specific activity of recombinant human TGF alpha is > 5 x 10 ⁶ IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of TGFA (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 8.0. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. The product is stable for one year. Avoid repeated freeze/thaw cycles.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — TGFA

Entrez GeneID	7039
Gene Name	TGFA
Gene Alias	TFGA
Gene Description	transforming growth factor, alpha

Omim ID [190170](#)

Gene Ontology [Hyperlink](#)

Gene Summary Transforming growth factors (TGFs) are biologically active polypeptides that reversibly confer the transformed phenotype on cultured cells. TGF-alpha shows about 40% sequence homology with epidermal growth factor (EGF; MIM 131530) and competes with EGF for binding to the EGF receptor (MIM 131550), stimulating its phosphorylation and producing a mitogenic response.[supplied by OMIM]

Other Designations transforming growth factor-alpha

Pathway

- [ErbB signaling pathway](#)
- [Glioma](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Adenocarcinoma](#)
- [Anodontia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Drug Toxicity](#)

- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Irritable Bowel Syndrome](#)
- [Liver Neoplasms](#)
- [Mouth Neoplasms](#)
- [Pre-Eclampsia](#)
- [Prenatal Exposure Delayed Effects](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)
- [Uniparental Disomy](#)