Bioactive

TGFA (Human) Recombinant Protein

Catalog # P9201 Size 100 ug

Specification

Product Description	Human TGFA partial recombinant protein expressed in *Escherichia coli*.
Sequence	VVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA
Host	Escherichia coli
Theoretical MW (kDa)	5.6
Specificity	TGFA Human
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	chromatographic
Purity	> 95% as determined by SDS-PAGE.
Activity	ED_{50} < 0.395 ng/mL, measured in a proliferation assay using mouse BALB/c 3T3 cells.
Storage Buffer	Lyophilized from a solution containing 0.1% TFA. Reconstitute the lyophilized powder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

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Gene Info — TGFA

Entrez GeneID	7039
Protein Accession#	P01135
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 t ransformed phenotype on cultured cells. TGF-alpha shows about 40% sequence homology with e pidermal growth factor (EGF; MIM 131530) and competes with EGF for binding to the EGF recep tor (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

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- 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

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