Bioactive

TGFA (Human) Recombinant Protein

Catalog # P7409 Size 5 ug

Specification

Product Description	Human TGFA (P01135, 40 a.a. - 89 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	VVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA
Host	Human
Theoretical MW (kDa)	8 ~ 10
Form	Lyophilized
Preparation Method	_x005F_x000D__x000D_ Mammalian cell (CHO) expression system_x005F_x000D__x000D_
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	ED_{50} < 0.4 ng/mL, measured in cell proliferation assay using 3T3 cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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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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