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Product datasheet for TP723858

TGF alpha (TGFA) (NM_003236) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human transforming growth factor, alpha (TGFA), transcript variant 1
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human TGF-alpha;, the region of Val40-Ala89, from gene Accession# NM_003236
Tag:	Tag Free
Predicted MW:	5.5 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	The ED50 is 0.1 - 0.4 ng/ml, corresponding to a specific activity of 0.25 - 1.0 x 10^7 units/mg, determined by the dose dependent stimulation of BALB/c-3T3 mouse embryonic fibroblast cells proliferation.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_003227
Locus ID:	7039
UniProt ID:	P01135
RefSeq Size:	4326
Cytogenetics:	2p13.3
RefSeq ORF:	477

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Synonyms: TFGA

Summary: This gene encodes a growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: ErbB signaling pathway, Glioma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Renal cell carcinoma

Product images: