

Datasheet for ABIN7275716  
**TGFA Protein (AA 40-89) (Fc Tag)**

## 4 Images

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TGFA
Protein Characteristics:	AA 40-89
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFA protein is labelled with Fc Tag.

## Product Details

Purpose:	Human TGF-alpha Protein
Sequence:	Val40-Ala89
Characteristics:	Recombinant Human TGF-alpha Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Val40-Ala89.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human TGF-alpha, hFc Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-TGF-alpha Antibody, hFc Tag with the EC50 of 12.3ng/ml determined by ELISA. The affinity constant of 0.31 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

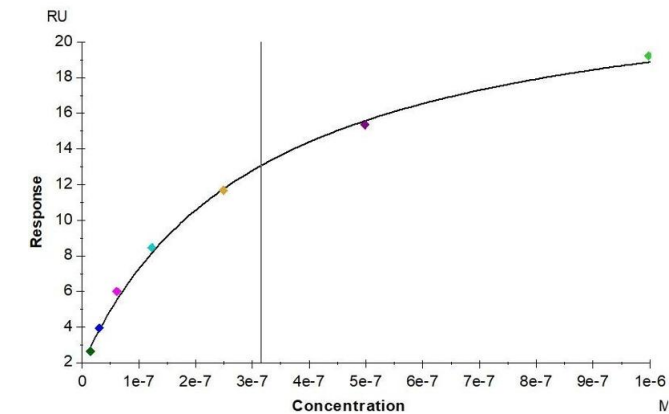
Target:	TGFA
Alternative Name:	TGF-alpha ( <a href="#">TGFA Products</a> )
Background:	Transforming growth factor-alpha (TGFA) has been proposed as a candidate gene in the etiology of nonsyndromic cleft lip with or without cleft palate (NS-CL/P) and of nonsyndromic cleft palate only (NS-CPO). Biologic support for a role of TGFA arises from its presence at high levels in the epithelial tissue of the medial edge of the palatal shelves at the time of shelf fusion in mice.
Molecular Weight:	32.9 kDa. Due to glycosylation, the protein migrates to 38-45 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">EGFR Signaling Pathway</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

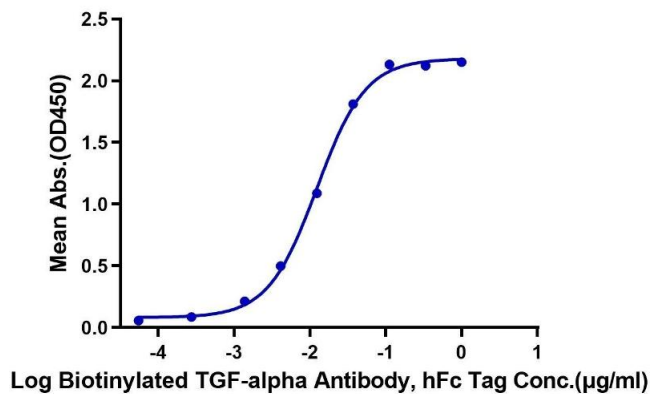
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM Tris,100 mM NaCl ( pH 8.0). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Surface Plasmon Resonance

**Image 1.** Human EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Human TGF-alpha, hFc Tag with an affinity constant of 0.31  $\mu$ M as determined in SPR assay (Biacore T200).

**Human TGF-alpha, hFc Tag ELISA**  
0.02 $\mu$ g Human TGF-alpha, hFc Tag Per Well



ELISA

**Image 2.** Immobilized Human TGF-alpha, hFc Tag at 0.2  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Biotinylated Anti-TGF-alpha Antibody, hFc Tag with the EC50 of 12.3 ng/mL determined by ELISA.



SDS-PAGE

**Image 3.** Human TGF-alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275716.