

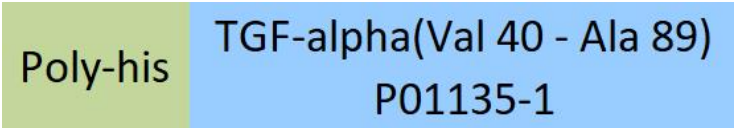
Synonym

Transforming growth factor-alpha

Source

Human Transforming growth factor-alpha/TGF-alpha, His Tag(TGA-H5141) is expressed from human 293 cells (HEK293). It contains AA Val 40 - Ala 89 (Accession # [P01135-1](#)).
Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus
The protein has a calculated MW of 7.4 kDa. The protein migrates as 11 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

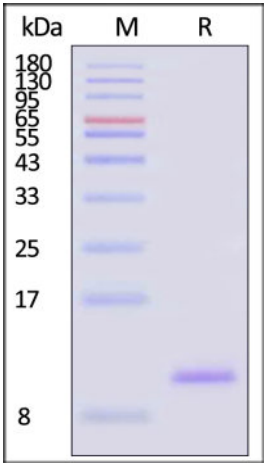
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

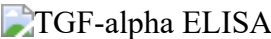
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Transforming growth factor-alpha/TGF-alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human Transforming growth factor-alpha/TGF-alpha, His Tag (Cat. No. TGA-H5141) at 5 µg/mL (100 µL/well) can bind Human EGF R, Fc Tag (Cat. No. EGR-H5252) with a linear range of 0.2-2 ng/mL (QC tested).



Immobilized Human Transforming growth factor-alpha/TGF-alpha, His Tag (Cat. No. TGA-H5141) at 5 µg/mL (100 µL/well) can bind Biotinylated Human EGF R, Fc,Avitag (Cat. No. EGR-H82F8) with a linear range of 0.3-10 ng/mL (Routinely tested).

Background

TGF-alpha is a normal physiological ligand for the EGF receptor. TGF- α and the EGF receptor are expressed in many developing and adult tissues, where TGF- α has been implicated in cell migration, growth, and differentiation.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.