

Product datasheet

Recombinant human TGF alpha protein ab233681

[2 Images](#)

Description

Product name	Recombinant human TGF alpha protein	
Biological activity	3T3 cell proliferation. ED50 ≤ 2 ng/mL (≥ 5 x 10 ⁵ units/mg).	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	≤1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	P01135	
Protein length	Protein fragment	
Animal free	Yes	
Nature	Recombinant	
Species	Human	
Sequence	VVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHS GYVGARCEHADLLA	
Predicted molecular weight	17 kDa	
Amino acids	40 to 89	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab233681** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at Room Temperature. Store at -20°C long term. Constituent: 0.1% Trifluoroacetic acid This product is an active protein and may elicit a biological response in vivo, handle with caution.
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Reconstitution

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

General Info

Function

TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.

Tissue specificity

Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines.

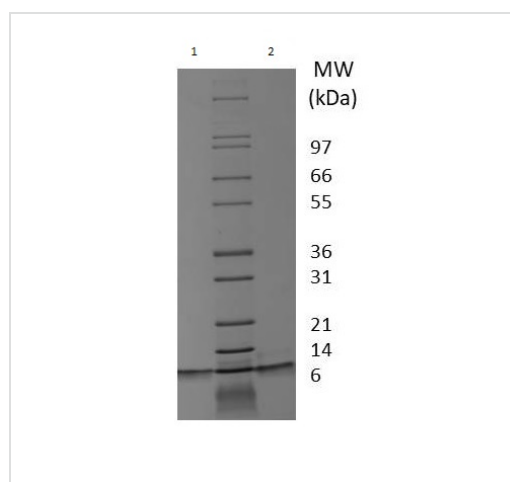
Sequence similarities

Contains 1 EGF-like domain.

Cellular localization

Cell membrane and Secreted > extracellular space.

Images



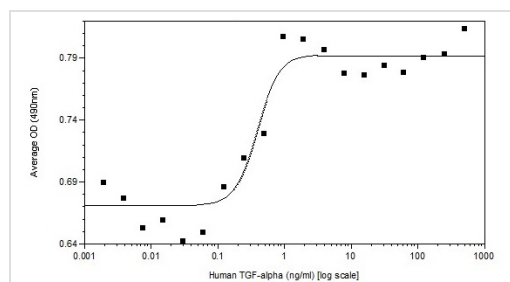
SDS-PAGE - Recombinant human TGF alpha protein (Active) (ab233681) at 1 µg.

Lane 1: Non-reducing conditions.

Lane 2: Reducing conditions.

4-20% Tris-Glycine gel stained with Coomassie Blue.

SDS-PAGE - Recombinant human TGF alpha protein (ab233681)



Human TGF alpha (ab233681) induced proliferation of NIH/3T3 (mouse embryo fibroblast cell line) cells.

Functional Studies - Recombinant human TGF alpha protein (ab233681)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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