

# Human TGF-beta 1 Recombinant Protein, PeproTech®

Product Details	
Size	10 µg
Species	Human
Published Species	Mink, Rat, Pig, Virus, Non-human primate, Deer, Bovine, Human, Mouse, Donkey, Horse, Dog, Rabbit, Fruit fly
Expression system	HEK293 cells
Amino acid sequence	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS
Molecular weight	25 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	The ED50 was determined by TGF-beta1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is 0.05 ng/ml, corresponding to a specific activity of 2 x 10 <sup>7</sup> units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

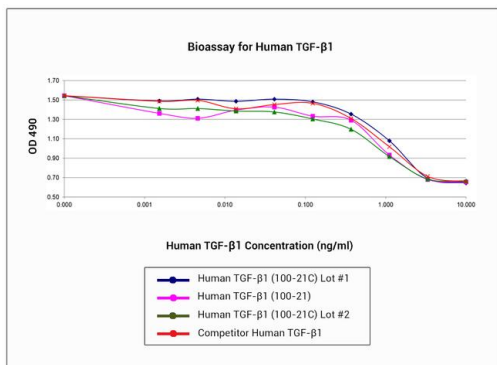
Applications	Tested Dilution	Publications
Western Blot (WB)	-	5 Publications
Flow Cytometry (Flow)	-	2 Publications
ELISA (ELISA)	-	2 Publications
Functional Assay (Functional)	Assay-dependent	1 Publication
Inhibition Assays (IA)	-	1 Publication
T-Cell Activation (TCA)	-	1 Publication
In vitro Assay (IV)	-	996 Publications
Competition Assay (CA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	103 Publications
Immunostaining (IS)	-	2 Publications

## Product Specific Information

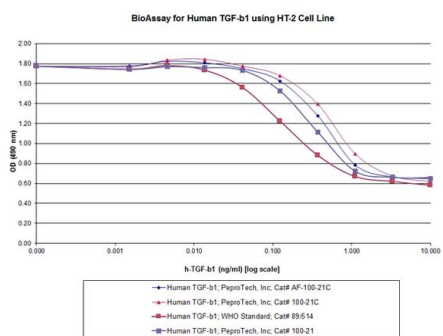
Recombinant Human TGF-beta1 derived from HEK293 cells is a 25.0 kDa protein with each subunit containing 112 amino acid residues, linked by a single disulfide bond.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

## Product Images For Human TGF-beta 1 Recombinant Protein, PeptoTech®



**Human TGF-beta 1 Protein (100-21-10UG) in Functional Bioassay analysis of Human TGF-beta 1 Recombinant Protein, PeptoTech® (Product # 100-21-1MG).**



**Human TGF-beta 1 Protein (100-21-10UG) in Functional WHO Comparison of Human TGF-beta 1 Recombinant Protein, PeptoTech® (Product # 100-21-1MG).**

## Western Blot (5)

American journal of physiology. Lung cellular and molecular physiology

### Attenuated pulmonary fibrosis in sialidase-3 knockout () mice.

Authors: Karhadkar TR,Chen W,Gomer RH

Year  
2020

Scientific reports

### Three-dimensional Organotypic Culture Models of Human Hepatocellular Carcinoma.

Authors: Takai A,Fako V,Dang H,Forgues M,Yu Z,Budhu A,Wang XW

Year  
2016

Species  
Human

[View more WB references on thermofisher.cn](#)

## Flow Cytometry (2)

European journal of immunology

### Acidity-mediated induction of FoxP3<sup>+</sup> regulatory T cells.

"100-21 was used in Sample Preparation (FC/FACS) to conclude that acidity augments Treg induction and propose that therapeutic targeting of acidity in the tumor microenvironment (TME) might reduce Treg-mediated immune suppression within tumors."

Authors: Rao D,Stunnenberg JA,Lacroix R,Dimitriadis P,Kaplon J,Verburg F,van van Royen PT,Hoefsmit EP,Renner K,Blank CU,Peeper DS

Year  
2023

Species  
Human

Nature communications

### ADAP1 promotes latent HIV-1 reactivation by selectively tuning KRAS-ERK-AP-1 T cell signaling-transcriptional axis.

"100-21 was used in Flow cytometry/Cell sorting to define ADAP1 as an unexpected tuner of T cell programs facilitating HIV-1 latency escape."

Authors: Ramirez NP, Lee J, Zheng Y, Li L, Dennis B, Chen D, Challa A, Planelles V, Westover KD, Alto NM, D'Orso I

Year  
2022

Species  
Human

## More applications with references on thermofisher.cn

[ELISA \(2\)](#)

[Functional \(1\)](#)

[IA \(1\)](#)

[TCA \(1\)](#)

[IV \(996\)](#)

[CA \(1\)](#)

[Misc \(103\)](#)

[IS \(2\)](#)

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