Catalog Number: HZ-1011-GMP

Data Sheet

GMP HumanKine® TGF beta 1 (Recombinant Human)

Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free

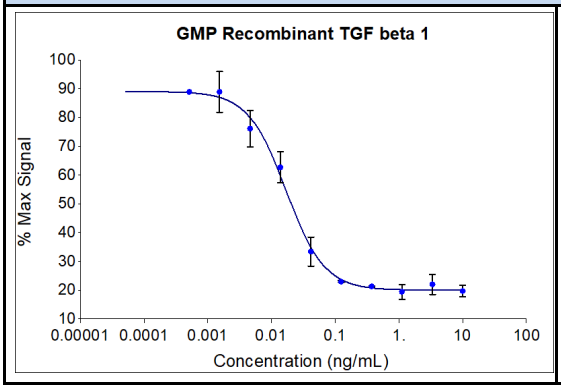
Product Description

Alternative Names	CED, DPD1, LAP, TGF ?1, TGF beta 1, tgf beta1, TGFB, TGFB1, TGFbeta, tgf-beta1
Accession Number	P01137
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived TGF beta 1 protein
Adventitious Virus	Master Cell Bank tested Negative for Adventitious Viruses

Specifications

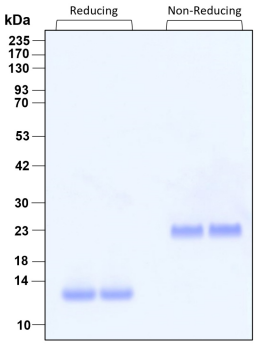
Test	Method	Specification
Activity	Dose-dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2)	0.01-0.17 ng/mL
Molecular Mass	SDS-PAGE	13 kDa reduced, 25 kDa non-reduced, homodimer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<0.1 EU/ug
Mycoplasma	PCR	Not Detected

Activity Data



Recombinant human GMP TGF beta 1 (HZ-1011-GMP) inhibits IL-4 induced proliferation of the HT-2 mouse cell line. HT-2 cells are Balb/c spleen cells activated by sheep erythrocytes in the presence of IL-2. Cell number was quantitatively assessed by PrestoBlue® cell viability reagent. HT-2 cells were treated with increasing concentrations of recombinant GMP TGF beta 1

SDS-PAGE



Purity of GMP recombinant TGF beta 1 was determined by SDS-polyacrylamide gel electrophoresis. The protein was resolved in an SDS-polyacrylamide gel in reducing and non-reducing conditions followed by staining with Comassie blue.

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Preparation	
Shipping Temperature	ambient temperature
Formulation	50 mM NaOAc pH 3.7, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
Stability and Storage	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
	Avoid repeated freeze-thaw cycles.		

Proteintech GMP Quality Policy
HumanKine® GMP Proteins

Invitro recombinant protein production can be prone to variability due to various reasons ranging from quality of raw materials to inconsistency in the process. Therefore, HumanKine®, a proteintech brand's GMP proteins are produced and tested under an ISO 13485 certified quality management system in a clean room facility. Proteintech manufactures the GMP HumanKine® products according to the applicable sections in the following documents: USP Chapter 1043 (Ancillary Materials for Cell, Gene, and Tissue-Engineered Products, USP Chapter 92 (Growth Factors and Cytokines Used in Cell Therapy Manufacturing), WHO TRS, No. 822, 1992 Annex 1 (Good Manufacturing Practices for Biological Products), Ph. Eur. General Chapter 5.2.12, and EudraLex – Volume 4 – Part IV (Guidelines on GMP specific to ATMPs). Proteintech strives to achieve the utmost quality GMP raw material ensuring all applicable guidelines are taken into consideration.

The QMS is built to provide our customers with consistent and pure product delivered by documented processes, qualified personnel, validated processes, qualified equipment, qualified vendors, and a stringent final product release process. Although the final product release process is important, Proteintech performs in-process QC steps after each major manufacturing stage. Production records and facilities may be available for an inspection by approved personnel.

Our GMP policy covers all the aspects of production; from raw materials, facility, equipment, and Instruments to training and personal hygiene of staff. It also guarantees that the process is explicit, validated and well documented for transparency and traceability.

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