



Certificate of Analysis

TGF beta 1 Protein, Human (C33S, HEK293, His)

Cat. No.:	HY-P78668
Batch No.:	274169
Species:	Human
Source:	HEK293
Tag:	N-6*His
Accession:	P01137/NP_000651.3 (L30-R278, C33S)
Gene ID:	7040
Molecular Weight:	37-44 kDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	<1 EU/μg
Biological Activity	Measured by its ability to inhibit proliferation of HT-2 mouse T cells. The ED ₅₀ for this effect is 0.1120 ng/mL, corresponding to a specific activity is 8.929×10 ⁶ units/mg.	0.1120 ng/mL
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

Caution: Product has not been fully validated for medical applications. For research use only.

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