

Recombinant Human/Mouse/Rat TGF-beta 1 Protein

Product Information

Product Name	Cat#	Size
Recombinant Human/Mouse/Rat TGF-beta 1 Protein	91701ES08	5 μg
Recombinant Human/Mouse/Rat 101-octa 1 110tcm	91701ES60	100 μg

Product Description

Transforming growth factor-beta1 (TGF- β 1) is a major pluripotential cytokine with a pronounced immunosuppressive effect. TGF- β 1 is one of three closely related mammalian members of the large TGF- β superfamily that share a characteristic cystine knot structure. Mature human TGF- β 1 shares 100% aa identity with pig, dog and cow TGF- β 1, and 99% aa identity with mouse, rat and horse TGF- β 1. TGF- β 1 is a key regulator of diverse biological processes in many tissues and cell types, its can be tumorsuppressive through the activation of the Smadmediated signaling pathway. TGF- β 1 inhibits the growth factor and oncogene induction of transin/stromelysin, a secreted matrix-degrading metalloprotease.

Product Properties

Synonyms	CEDLAP, DPD1, latency-associated peptide, TGF beta, TGF beta1, TGFB, TGFB1	
Accession	P01137	
GeneID	7040	
Source	CHO-derived Human TGF-β1, Ala279-Ser390.	
Molecular Weight	Approximately 12 kDa under reducing conditions.	
AA Sequence	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK	
	VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	>97% by SDS-PAGE analyses.	
Biological Activity	Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED50 for	
	this effect is 0.04-0.2 ng/mL. The specific activity of Recombinant Human TGF- $\beta 1$ is approximately 2.5 \times	
	$10^4~\text{U/}\mu\text{g}$, which is calibrated against human TGF- $\beta1$ Standard.	
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.	
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 35% Acetonitrile and 0.1% TFA.	
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.	
	Reconstitute in sterile 4 mM HCl to a concentration of 0.1 mg/mL. Stock solutions should be apportioned	
	into working aliquots and stored at \leq -20°C. Further dilutions should be made in appropriately buffered	
	solutions.	

Shipping and Storage

The products are shipped with ice pack and can be stored at -20 °C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

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Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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