

## Recombinant Human Tumor Necrosis Factor-beta/TNFSF1

# (Human TNF-β/TNFSF1)

#### **Product Information**

Product Name	Cat#	Size
Recombinant Human Tumor Necrosis Factor-beta/TNFSF1 (Human TNF-β/TNFSF1)	90603ES10	10 μg
	90603ES60	100 μg
	90603ES78	500 μg

#### **Product Description**

TNF- $\beta$  is a potent mediator of inflammatory and immune responses. It belongs to the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF- $\beta$  is produced by activated T and B lymphocytes, and has similar activities to TNF- $\alpha$ . Like TNF- $\alpha$ , TNF- $\beta$  is involved in the regulation of various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. TNF- $\beta$  forms heterotrimers with lymphotoxin-beta, which anchors TNF- $\beta$  to the cell surface. TNF- $\beta$  mediates the inflammatory, immunostimulatory, and antiviral response, involves in the formation of second lymphoid organs during development, has a role in apoptosis. TNF- $\beta$  is produced by lymphocytes and cytotoxic for a variety of tumor cells in vitro.

#### **Product Properties**

Synonyms	TNFB, TNFSF1		
Accession	P01374		
GeneID	4049		
Source	E.coli-derived Human Tumor Necrosis Factor-beta protein, Leu35-Leu205.		
Molecular Weight	Approximately 18.7 kDa		
AA Sequence	LPGVGLTPSA AQTARQHPKM HLAHSTLKPA AHLIGDPSKQ NSLLWRANTD RAFLQDGFSL		
	SNNSLLVPTS GIYFVYSQVV FSGKAYSPKA TSSPLYLAHE VQLFSSQYPF HVPLLSSQKM		
	VYPGLQEPWL HSMYHGAAFQ LTQGDQLSTH TDGIPHLVLS PSTVFFGAFA L		
Tag	None		
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.		
Purity	> 96% by SDS-PAGE and HPLC analyses.		
Biological Activity	The ED <sub>50</sub> as determined by a cytotoxicity assay using murine L929 cells is less than 5 pg/ml,		
	corresponding to a specific activity of $> 2.0 \times 10^8$ IU/mg in the presence of actinomycin D. Fully		
	biologically active when compared to standard.		
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.		
Formulation	Lyophilized from a 0.2 $\mu m$ filtered concentrated solution in PBS, pH7.4, with 0.02% Tween-20.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.		
	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0		
	mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20°C. Further		
	dilutions should be made in appropriate buffered solutions.		

#### **Shipping and Storage**

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

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

### **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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