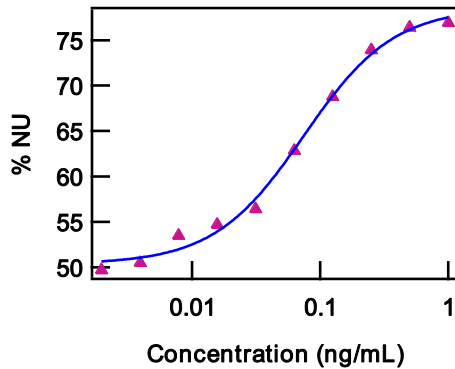


## Human TGF beta 3 Recombinant Protein

**Catalog Number:** 14-8369

**Also known as:** Transforming Growth Factor beta 3, TGF-beta3, TGFbeta3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Human TGF beta3 Recombinant Protein neutralization of recombinant Mouse IL-4-induced proliferation in CTLL-2 cells.

### Product Information

**Contents:** Human TGF beta 3 Recombinant Protein

**REF** **Catalog Number:** 14-8369

**Concentration:** 0.1 mg/mL

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment

**Source:** E. coli derived, accession number NM\_003239

**Molecular Mass:** 25.7 kDa

**Purity:** > 98%, as determined by SDS-PAGE

**Endotoxin:** Less than 0.01 ng/ug cytokine as determined by the LAL assay

**Bioactivity:** The ED50 of this protein, as measured by the neutralization of recombinant mouse IL-4-induced proliferation of CTLL-2 cells, is 0.03-0.125 ng/mL. This corresponds to a specific activity of  $3.3 \times 10^7 - 8 \times 10^6$  Units/mg.

**Formulation:** Sterile liquid: 0.1 M glycine, pH 3.0 with 1% BSA, 0.22 um filtered

**Temperature Limitation:** Store at less than or equal to -70°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



### Description

Transforming growth factor  $\beta 3$  (TGF- $\beta 3$ ) is the third member of the transforming growth factor family of cytokines, which also includes TGF- $\beta 1$  and - $\beta 2$ . These cytokines are secreted in precursor form consisting of a bioactive C-terminal domain attached to an N-terminal domain known as latency associated protein (LAP). Cleavage of LAP results in the mature protein, which functions as a disulfide-linked homodimer. As with all members of the family, TGF  $\beta 3$  is highly conserved across species, with mouse and human TGF beta 3 demonstrating 100% sequence homology and cross-species activity.

The members of this family can be expressed by most cell types and exert pleiotropic effects, which include the suppression of B- and T-cell effector activity, mediation of tissue healing, and suppression of tumor proliferation. The promotion of CD4+CD25+ T-cell expansion is a newly discovered function of the TGF- $\beta$  cytokines, and indicates an important role in the protection against autoimmunity.

### Applications Reported

Recombinant human TGF- $\beta 3$  is biologically active.

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) •  
[info@ebioscience.com](mailto:info@ebioscience.com)

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### Applications Tested

The ED<sub>50</sub> of this protein, as measured by the neutralization of recombinant mouse IL-4-induced proliferation of CTLL-2 cells, is 0.03-0.125 ng/ml. This corresponds to a specific activity of  $3.3 \times 10^7$  -  $8 \times 10^6$  Units/mg.

### References

Cox DA and Maurer T. Transforming Growth Factor-  $\beta$ . Clin Immunol. 1997 Apr;83(1)25-30.

Peng Y, Laouar Y, Li MO, Green EA, Flavell RA. TGF-beta regulates in vivo expansion of Foxp3-expressing CD4+CD25+ regulatory T cells responsible for protection against diabetes. Proc Natl Acad Sci U S A. 2004 Mar 30;101(13):4572-7.

Zheng SG, Gray JD, Ohtsuka K, Yamagiwa S, Horwitz DA. Generation ex vivo of TGF-beta-producing regulatory T cells from CD4+CD25- precursors. J Immunol. 2002 Oct 15;169(8)4183-9.

### Related Products

14-8348 Human TGF beta 1 Recombinant Protein

14-8368 Human TGF beta 2 Recombinant Protein

88-7344 Human/Mouse TGF beta 1 ELISA Ready-SET-Go!® (To Be Discontinued. Refer to 2nd Generation RSG Version: cat. 88-8350)

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