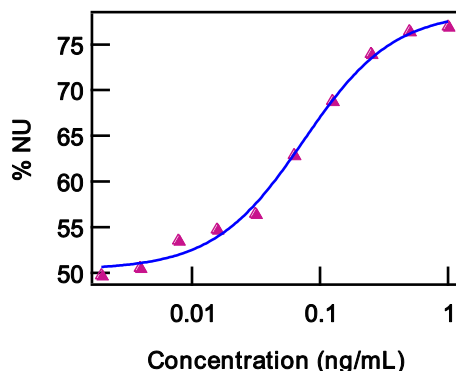


## Human TGF beta 3 Recombinant Protein Carrier-Free

**Catalog Number:** 34-8369

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

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



Neutralization of recombinant mouse IL-4-induced proliferation of the CTLL-2 cell line by Human TGF beta3 Recombinant Protein Carrier-Free.

### Product Information

**Contents:** Human TGF beta 3 Recombinant Protein Carrier-Free



**Catalog Number:** 34-8369

**Concentration:** 0.5 mg/mL

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

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

**Molecular Mass:** 25.7 kDa

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

**Endotoxin:** Less than 0.01 ng/ $\mu$ g cytokine as determined by the LAL assay

**Bioactivity:** 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.

**Formulation:** 0.1 M Glycine, pH 3.0, 0.22  $\mu$ m 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.

Not for further distribution without written consent.

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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.

### 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

16-9823 Anti-Human LAP Functional Grade Purified (VB3A9)

34-8348 Human TGF beta 1 Recombinant Protein Carrier-Free

34-8368 Human TGF beta 2 Recombinant Protein Carrier-Free

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

88-7449 Human/ Mouse TGFb1 ELISA Ready-SET-Go! Kit (See replacement item BMS249/3)