

ANTIGENIX AMERICA Inc.
1-800-558-1008
PRODUCT INFORMATION SUMMARY

Human TGF Beta 1

PRODUCT NUMBER HC70077A Purified factor 1.0 ug
HC70077B Purified factor 5.0 ug

ANTIGEN DISTRIBUTION AND SPECIFICITY:

Transforming Growth Factor Beta 1 (TGF Beta 1) is a member of a family of closely related polypeptide factors. Initially described as a transforming agent, this cytokine has since been found to have numerous activities including regulation of cell growth, proliferation and differentiation, chemotactic recruitment of cells, inflammatory and immunosuppressive mediator (1). TGF Beta 1 is a 25 kDa disulfide-linked homodimer.

SOURCE: Human Platelets

Purity greater than 98% by HPLC analysis.
Endotoxin level less than 0.1 ng per ug TGF Beta

HANDLING AND STORAGE:

Microcentrifuge before reconstitution. Because ANTIGENIX factors are provided without carrier proteins like sucrose or BSA, the small quantities of lyophilized protein can adhere to the sides and cap of the vial during manufacture. **Before opening the vial**, we recommend microcentrifuging for 30 seconds to spin-down all material.

Lyophilized, purified TGF Beta 1 should be reconstituted with 100 uL distilled water and will be in a 5mM citrate buffer, pH 3.5. This can be stored liquid, at 4°C for up to two months. For long-term storage, freeze aliquots at -20° C.

Note: At more neutral pH, TGF Beta 1 will tend to adhere to surfaces of tubes, pipettes, etc. Further dilution of stock solution should take into account the stickiness of this protein. Further dilutions should be made into PBS containing 2 mg/mL albumin (buffer at pH below 4).

BIOACTIVITY:

At concentration from 0.1 - 5 ng/mL (experimentally optimize), TGF Beta 1 will promote colony formation of NRK-1 cells in soft agar. EGF (or TGF Alpha) at 2 ng/mL must be included as co-stimulator. Specific activity 2.5×10^7 units /mg as determined by inhibition of thymidine uptake by mink Mv 1 Lu cells (0.04 ng/mL at 50% inhibition).

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

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