

Recombinant Human TGF- β 3

Cat# HST-TB3

Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: Human cells derived

Structure: Non-glycosylated homodimer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5EU/ug

Molecular Weight: 25kDa

Formulation: Lyophilized from a 0.2 μ m filtered solution in 50mM NAOC PH4.0 without carrier protein

Activity Assay

The activity was measured by its ability to inhibit the IL-4 induced proliferation in mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2).

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

Protein Description

Transforming growth factor beta 3(TGF β 3) is one of three closely related mammalian members of the large TGF β superfamily, TGF- β 1, β 2, and β 3, signal through the same receptor and elicit similar biological responses. The mammalian TGF- β 3 controls a vast array of biological processes including immune regulation, cell proliferation, epithelial-mesenchymal transition, and the bone formation. It is generally recognized to facilitate chondrogenic differentiation of precursor cells. It may also have a dose-dependent inhibitory effect on osteogenesis. Recombinant Human TGF- β 3 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond. proliferation and differentiation in committed osteoblasts.

References

- Derynck R, et al. (1985) Nature 316,701-705.
Sporn MB et al. (2006) Cytokine Growth Factor Rev. 17:3.
Ugo Ripamonti U, et al.(2016)Front. Physiol., 08,396.