

Recombinant Human

TGF beta 1 (Human)

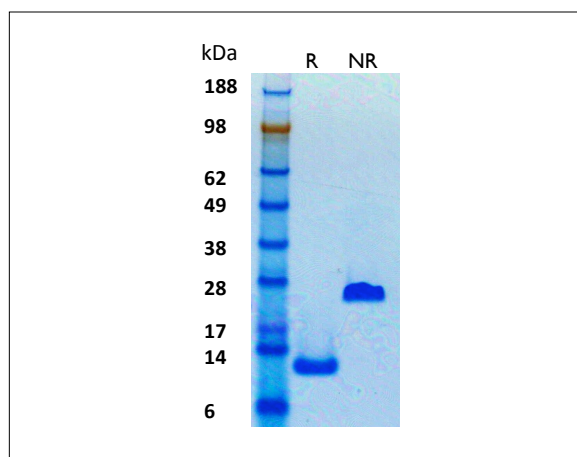
Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- $\text{MW} = 25 \text{ kDa}$

Xeno-free TGF beta 1 is expressed from human 293 cells as a mature disulfide-linked homodimer with an apparent molecular mass of 25 kDa. Tests indicate that TGF beta 1 is as efficient at inducing IL-17 expression in Th17 cells, as cytokine purified from human platelets. This product is produced in a human cell expression system with serum-free, chemically defined media.



All HumaXpress[®] HumanKine[™] cytokines are animal-component-free and Xeno-free[™]



Typical Specifications

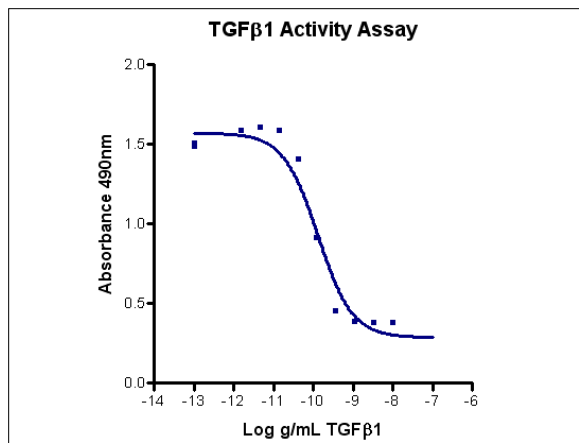
Species	Human
Expression	Human 293 cells
Activity	Typically $\leq 0.5 \text{ ng/mL EC}_{50}$
Purity	>95%
Endotoxin	$< 0.1 \text{ EU/mL}$
Molecular Mass	25 kDa, homodimer, non-glycosylated
Formulation	50 mM NaOAc pH 4.5

Purity Confirmation

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2).



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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