

**HumanKine<sup>®</sup> TGF beta 3 (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

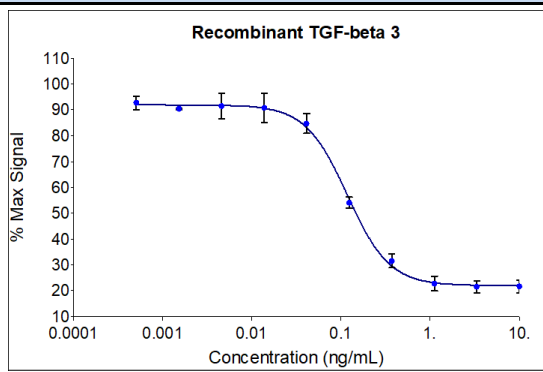
Animal-free Recombinant Human TGF beta 3 is expressed from human 293 cells as a mature disulfide-linked homodimer with apparent molecular mass of 25 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. The cytokine is greater than 95% pure.

Alternative Names	ARVD, FLJ16571, TGF beta 3, TGF beta3, TGFB3
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived TGF beta 3 protein

**Specifications**

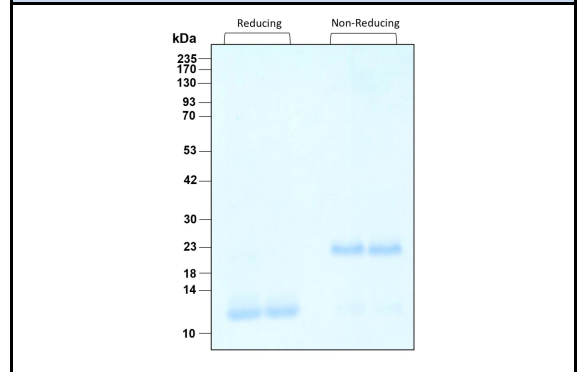
Test	Method	Specification
Activity	Dose-dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2)	0.01 - 0.2 ng/mL
Molecular Mass	SDS-PAGE	13 kDa reduced, 22 kDa non-reduced, homodimer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

**Activity Data**



Recombinant human TGF beta 3 (HZ-1090) inhibits IL-4 induced proliferation of the HT-2 mouse cell line. HT-2 cells are Balb/c spleen cells activated by sheep erythrocytes in the presence of IL-2. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> cell viability reagent. HT-2 cells were treated with increasing concentrations of recombinant TGF beta 3 for 72 hours. The EC50 was

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	50 mM NaOAc pH 3.7 + 1% CHAPS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.1mg/mL in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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