

**HumanKine<sup>®</sup> TGF beta 2 (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
-----------------------	----------------------	----------	----------------

**Product Description**

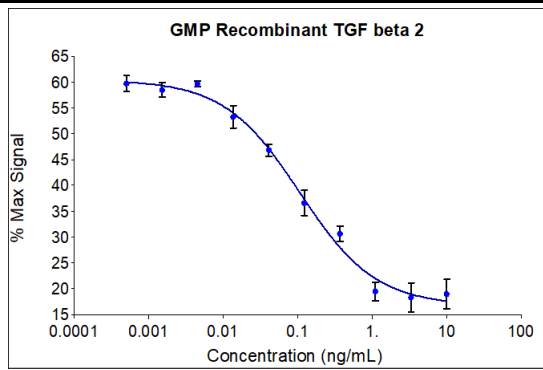
Animal-free Recombinant Human TGF beta 2HuXp is expressed from human 293 cells as a mature disulfide-linked homodimer with apparent molecular mass of 25 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. The cytokine is greater than 95% pure.

Alternative Names	BSC 1 cell growth inhibitor, Cetermin, G TSF, Polyergin, TGF beta 2, TGF beta2, TGFB2
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived TGF beta 2 protein

**Specifications**

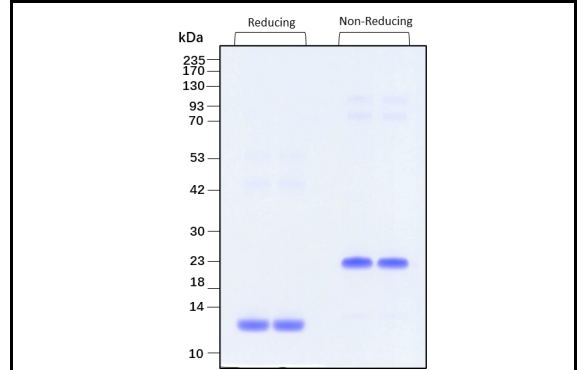
Test	Method	Specification
Activity	Dose-dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2)	0.018-0.18 ng/mL EC50
Molecular Mass	SDS-PAGE	25 kDa, homodimer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

**Activity Data**



Recombinant human TGF beta 2 (HZ-1092) 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 2 for 72 hours. The EC50 was

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	50 mM NaOAc pH 4.5, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 20% ethanol + 50 mM NaOAc + 75 mM HOAc.

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.			

[www.ptglab.com](http://www.ptglab.com)

Document #: FR-QA118-101 Rev 0  
Data Sheet Version #: 1

**Proteintech Group, Inc.**  
5500 Pearl Street, Suite 400 Rosemont, IL 60612  
t: 1-888-478-4522; f: 1-312-455-8408  
Email: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)