

Version 02

Update: 09/08/2021

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name:	TGF- $\beta$ 1, Human
Cat. No.:	Z03411
Lot No.:	S2105004-A
Storage Condition:	Lyophilized recombinant TGF- $\beta$ 1 remains stable for up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human TGF- $\beta$ 1 should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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### Quality Results

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Biological Activity(ED <sub>50</sub> )	< 0.2 ng/ml	Conformed
Molecular Weight	12 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/ $\mu$ g	Conformed

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### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188

**Certified by:** Dandan Yao **Date:** 01/19/2022

**Quality Department**

*For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.*