

Version 1.1

Update: 12/27/2019

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name:	Heregulin $\beta$ -1, Human
Cat. No.:	Z03321
Lot No.:	B60061910
Storage Condition:	Lyophilized recombinant Human Heregulin $\beta$ -1 remains stable up to 6 months at lower than $-70^{\circ}\text{C}$ from date of receipt. Upon reconstitution, Human Heregulin $\beta$ -1 should be stable up to 1 week at $4^{\circ}\text{C}$ or up to 3 months at $-20^{\circ}\text{C}$ . 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( $\text{ED}_{50}$ )	< 100 pg/ml	Conformed
Molecular Weight	7.5 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/ $\mu\text{g}$	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: *Xianli Yang*

Date: 05/25/2020

Quality Department

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