

CERTIFICATE OF ANALYSIS

Product Information

Product Name: GM-CSF, Human(CHO-expressed)
Cat. No.: Z02983-10; Z02983-50; Z02983-1
Lot No.: B60101507
Size: 10 µg/vial; 50 µg/vial; 1 mg/vial
Storage Condition: Lyophilized recombinant Human GM-CSF remains stable up to 8 months at lower than -70°C from date of receipt. Upon reconstitution, rhGM-CSF should be stable up to 1 week at 4° C or up to 2 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.

Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Biological Activity (ED ₅₀)	< 0.2 ng/ml	Conformed
Molecular Weight	22-28kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/µg	Conformed

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: Joe Wang Date: 07/24/2015

Protein Products Department