

CERTIFICATE OF ANALYSIS

Product Information

Product Name: GM-CSF, Human

Cat. No.: Z00349-1

Lot No.: P50041504

Size: 1 mg/vial

Storage Condition: Lyophilized Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF), although stable at room temperature for three weeks, should be stored desiccated at -18°C or below. Upon reconstitution, Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) may be stored at 4°C for short periods (two to seven days). For long term storage, it is recommended that a carrier protein (0.1% HSA or BSA) be added. Avoid repeated freeze-thaw cycles.

Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE&HPLC)	> 95%	Conformed
Biological Activity (ED ₅₀)	< 0.1 ng/mL	Conformed
Molecular Weight	14 kDa	Conformed
Bacterial Endotoxin	< 0.3EU/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: 7/11/2015

Protein Products Department