Mouse GM-CSF R alpha Protein, His Tag

Catalog # GMA-M52H3

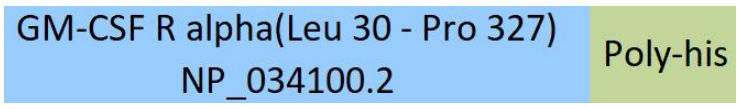
Synonym

GM-CSF R alpha,GM-CSF-R-alpha,GMCSFR-alpha,GMR-alpha,CSF2RA,CSF2R,CSF2RY,CDw116,CD116

Source

Mouse GM-CSF R alpha Protein, His Tag(GMA-M52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 30 - Pro 327 (Accession # NP_034100.2).
Predicted N-terminus: Leu 30

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 34.1 kDa. The protein migrates as 45-60 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

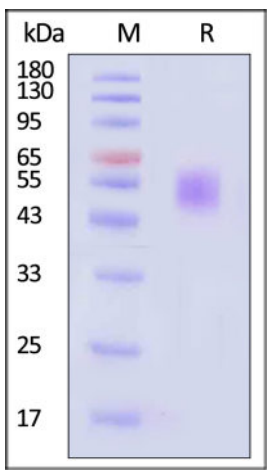
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

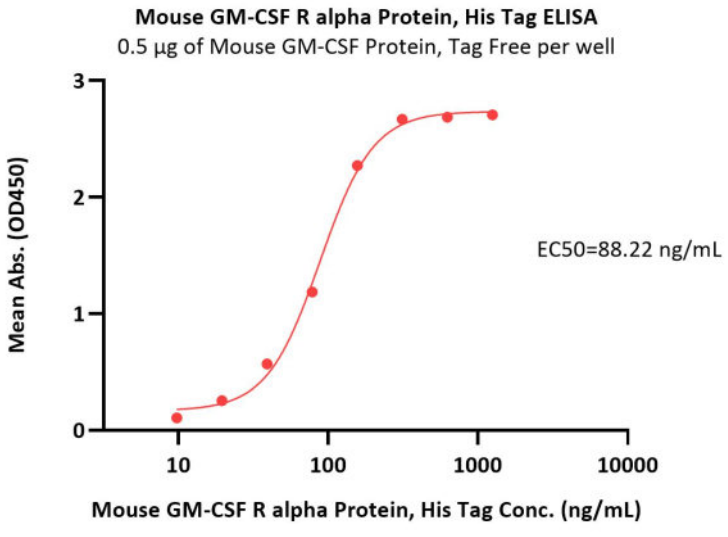
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse GM-CSF R alpha Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-ELISA



Immobilized Mouse GM-CSF Protein, Tag Free (Cat. No. GMF-M5211) at 5 μg/mL (100 μL/well) can bind Mouse GM-CSF R alpha Protein, His Tag (Cat. No. GMA-M52H3) with a linear range of 10-156 ng/mL (QC tested).

Background

GM-CSF R alpha(Granulocyte-macrophage colony-stimulating factor receptor subunit alpha) is also known as CSF2RA, CD116, GMR-alpha. Low affinity receptor for granulocyte-macrophage colony-stimulating factor. Transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells. Hereditary pulmonary alveolar proteinosis (hPAP) is a rare disorder of pulmonary surfactant accumulation and hypoxemic respiratory failure caused by mutations in CSF2RA (encoding the granulocyte/macrophage colony-stimulating factor [GM-CSF] receptor α-chain [CD116]), which results in reduced GM-CSF-dependent pulmonary surfactant clearance by alveolar macrophages.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.