

Rev03
 Update: Aug,08,2025

DATASHEET

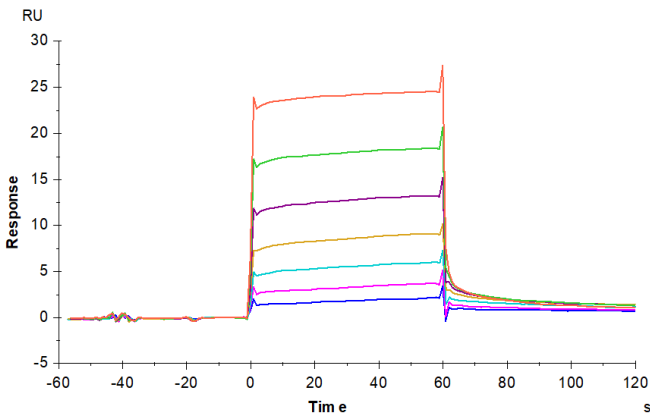
M-CSF/CSF-1, His, Cynomolgus

Cat. No.: Z04869

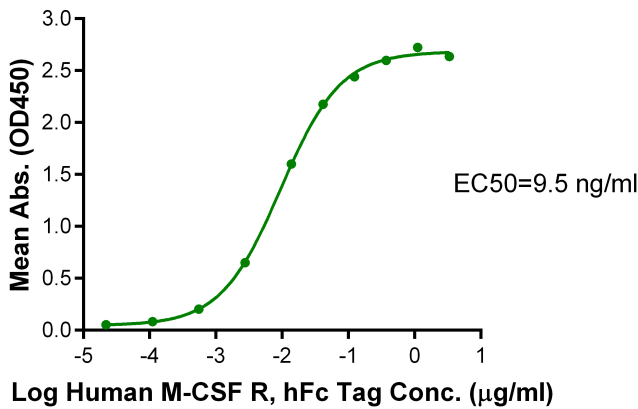
Product Introduction

| | |
|-------------------------------------|---|
| Species | Cynomolgus |
| Protein Construction | <div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-right: 10px;"> M-CSF/CSF-1 (Glu33-Leu255) Accession # XP_045221641.1 </div> <div style="background-color: #76923c; color: white; padding: 5px; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div> |
| Purity | > 95% as determined by Bis-Tris PAGE |
| Endotoxin Level | Less than 1EU per µg by the LAL method. |
| Biological Activity | Measured by its binding ability in a functional ELISA. Immobilized M-CSF/CSF-1, His, Cynomolgus at 1µg/ml (100µl/well) on the plate can bind Human MCSF R, hFc Tag. Test result was comparable to standard batch. |
| Expression System | HEK293 |
| Theoretical Molecular Weight | 26.26 kDa |
| Apparent Molecular Weight | Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result. |
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage & Stability | Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles. |

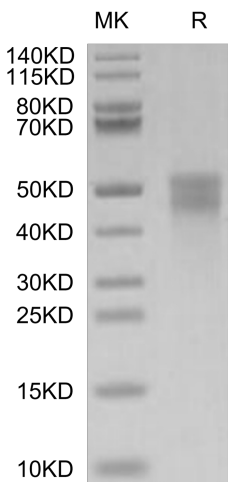
Examples



Cynomolgus M-CSF R, His Tag immobilized on CM5 Chip can bind M-CSF/CSF-1, His, Cynomolgus, His Tag with an affinity constant of 0.889 μ M as determined in SPR assay (Biacore T200).



Immobilized M-CSF/CSF-1, His, Cynomolgus, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human M-CSF R, hFc Tag with the EC50 of 9.5 ng/ml determined by ELISA.



M-CSF/CSF-1, His, Cynomolgus on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Background

Target Background : CSF-1, also known as M-CSF , is a four alpha -helical-bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. CSF-1 is also essential for the survival and proliferation of osteoclast progenitors. CSF-1 is cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. This mutation leads to a deletion of exons 2-7 of the EGFR gene and renders the mutant receptor incapable of binding any known ligand.

Synonyms : CSF1; CSF-1; MCSF; M-CSF; MGC31930; Lanimostim

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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