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Product Sheet

Human GM-CSF Protein; hFc Tag

GM-88384RP-100 / 100 μg
GM-88384RP-1000 / 1 mg

Product Information

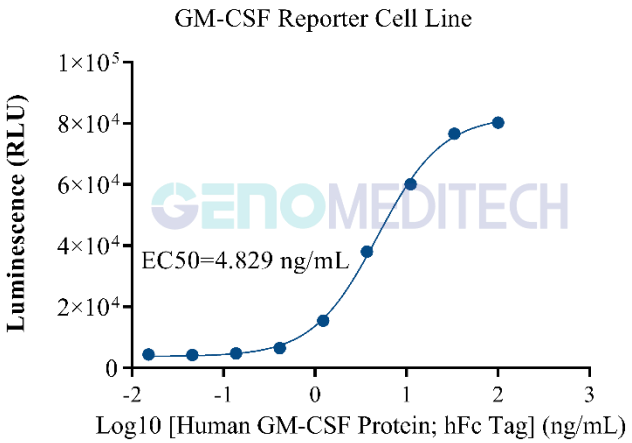
Product Name	Human GM-CSF Protein; hFc Tag
Source	Human GM-CSF Protein; hFc Tag (GM-88384RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 18 - Glu 144 (Accession # P04141). This protein carries a hFc tag at the N-terminus.
Predicted MW	41.3 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	GM-CSF, CSF2, MGC131935
Background	GM-CSF (granulocyte-macrophage colony-stimulating factor, CSF2) is a secreted glycoprotein cytokine with the four-α-helical bundle fold typical of hematopoietic cytokines. Produced by activated T cells, macrophages, endothelial and epithelial cells, it engages a receptor comprising a ligand-specific α chain (CD116) and the β common subunit (CD131) shared with the IL-3 and IL-5 receptors, activating JAK2–STAT5, MAPK and PI3K–AKT signaling. GM-CSF drives the proliferation, survival, differentiation and activation of myeloid progenitors and their granulocyte, monocyte and dendritic cell progeny, enhancing phagocytosis, antigen presentation and inflammatory cytokine release. Recombinant GM-CSF shortens neutropenia after chemotherapy or transplantation and serves as a vaccine adjuvant, whereas GM-CSF blockade is being evaluated in autoimmune and inflammatory diseases.

Version 4.0.26.1019

For research use only!

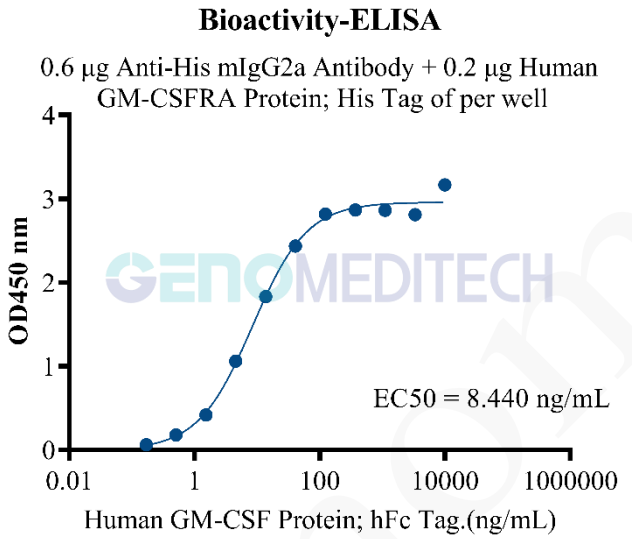
Data

Biological Activity



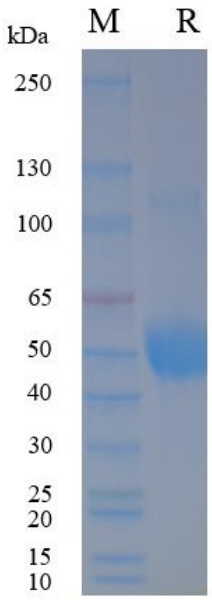
Human GM-CSF Protein; hFc Tag (Catalog # GM-88384RP) was added into GM-CSF Reporter Cell Line (Catalog # GM-C15752) and stimulates related signals.

Affinity



Human GM-CSFRA Protein; His Tag (Catalog # GM-88385RP; 2 μg/ml, 100 μl/well) was added to ELISA plates pre-coated with Anti-His mIgG2a Antibody (Catalog # GM-59493AB; 6 μg/ml, 100 μl/well), followed by incubation with increasing concentrations of Human GM-CSF Protein; hFc Tag (Catalog # GM-88384RP).

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

GM-CSF	
GM-CSF Reporter Cell Line	
Anti-GM-CSFRA hIgG4 Antibody (Mavrilimumab)	Anti-CSF2(GM-CSF) hIgG1 Antibody(otilimab)
Human GM-CSF Protein; His Tag	Human GM-CSFRA Protein; His Tag

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