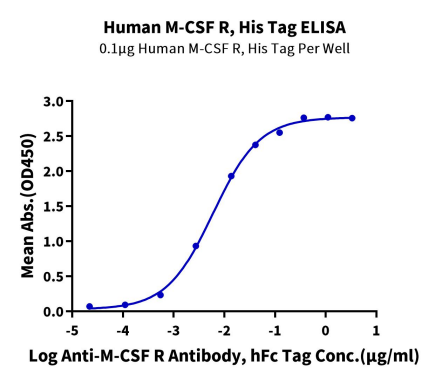
Bioactive CellTx™ HuPro®

CSF1R (Human) Recombinant Protein

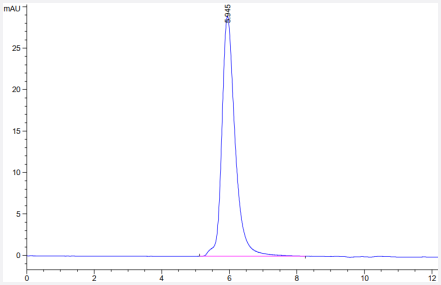
Catalog # P10197 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human M-CSF R, His Tag at 1 ug/ml (100 ul/Well). Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC_{50} of 6.0 ng/ml determined by ELISA.



SEC-HPLC

The purity of Human M-CSF R is greater than 95% as determined by SEC-HPLC.

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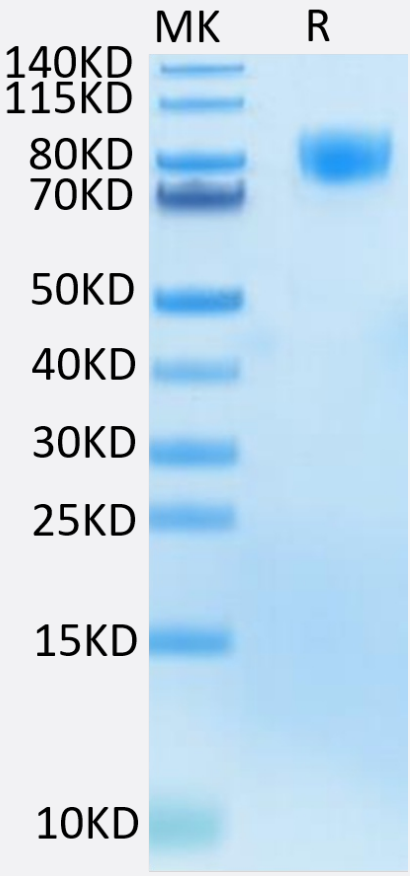

Tris-Bis PAGE

Human M-CSF R Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human CSF1R (P07333-1, Ile20-Glu512) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Ile20-Glu512
Host	Human
Theoretical MW (kDa)	57.4
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human M-CSF R is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human M-CSF R Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human M-CSF R, His Tag at 1 ug/ml (100 ul/Well). Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC_{50} of 6.0 ng/ml determined by ELISA.

Gene Info — CSF1R

Entrez GeneID	1436
Protein Accession#	P07333-1
Gene Name	CSF1R
Gene Alias	C-FMS, CD115, CSFR, FIM2, FMS
Gene Description	colony stimulating factor 1 receptor
Omim ID	164770
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which c ontrols the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase thro ugh a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kin ase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignanc y. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. [provided by RefSeq

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Other Designations	CD115 antigen|FMS proto-oncogene|McDonough feline sarcoma viral (v-fms) oncogene homolog |macrophage colony stimulating factor I receptor|soluble CSF1R variant 1

Pathway

- Cytokine-cytokine receptor interaction
- Endocytosis
- Hematopoietic cell lineage
- Pathways in cancer

Disease

- Asthma
- Genetic Predisposition to Disease
- Heart Defects
- Lung Neoplasms
- Myelodysplastic Syndromes
- Pancreatic cancer
- Pancreatic Neoplasms
- Pulmonary Disease
- Purpura
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Werner syndrome

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