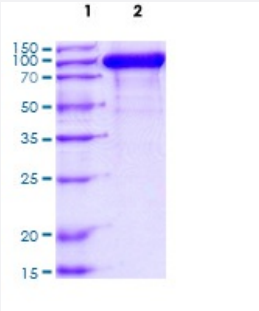
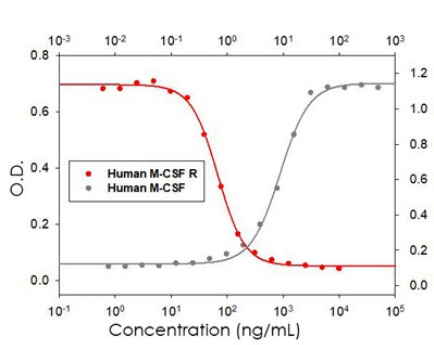
Bioactive

CSF1R (Human) Recombinant Protein

Catalog # P8048 Size 20 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human CSF1R (P07333, 20 a.a. - 517 a.a.) partial length recombinant protein with hIgG-His tag expressed in Baculovirus expression system.
Sequence	IPVIEPSVPELVVKPGATVTLRCVGNGSVEWDGPPSPHWTLYSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAAIHLYVKDPARPWNVLAQEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGGRKVMSISIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSASSVDVNFDVFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASNVQGKHSTSMFFRVVESAYLNLSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLGPFSDHQPEPKLANATTKDTYRHTFTLSLPRLKPSEAGRYSFLARNPGGWRALTFELTLRYPPEVSVIWTFINGSGTLLCAASGYPQPNVTWLQCSGHTDRCDEAQVLQVWDDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNSVGSGSWAFIPISAGAHTHPPDEFLFTP
Host	Viruses

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Theoretical MW (kDa)	82.0999999999998
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	ED_{50} is < 100 ng/mL, measured by the ability to inhibit proliferation using M-NFS-60 mouse myeloge nous leukemia lymphoblast cells.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CSF1R

Entrez GeneID	1436
Protein Accession#	P07333
Gene Name	CSF1R
Gene Alias	C-FMS, CD115, CSFR, FIM2, FMS
Gene Description	colony stimulating factor 1 receptor
Omim ID	164770
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which controls 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 through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase 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 malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. [provided by RefSeq
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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