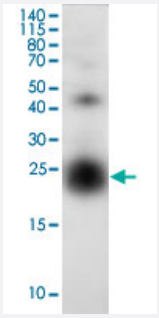
Bioactive | Full-Length | Sm Size

CSF1 (Human) Recombinant Protein

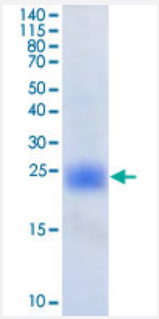
Catalog # P5818 Size 100 ug, 50 ug, 10 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis of CSF1 (Human) Recombinant Protein (Cat # P5818) using protein specific antibody.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CSF1 (159 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*).

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Host	Plants
Theoretical MW (kDa)	21
Form	Lyophilized
Preparation Method	Barley grain (*Hordeum vulgare*) expression system
Purification	Chromatography
Concentration	100 ug/mL
Purity	> 98% by SDS-PAGE
Endotoxin Level	Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay
Activity	Bioactivity is assayed by measuring the dose dependent effect of human MCSF on proliferation of M-NFS-60 cells. The ED_{50} lies typically in the range of 0.51-0.76 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Storage Buffer	Lyophilized from 5 mM TrisHCl, 80 mM Arginine, pH 8.0
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot (Recombinant protein)

  Western blot analysis of CSF1 (Human) Recombinant Protein (Cat # P5818) using protein specific antibody.
- SDS-PAGE

Gene Info — CSF1

Entrez GeneID	1435

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Protein Accession#	BAD92189
Gene Name	CSF1
Gene Alias	MCSF, MGC31930
Gene Description	colony stimulating factor 1 (macrophage)
Omim ID	120420
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Four transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000013362|OTTHUMP00000013363|OTTHUMP00000013364|colony stimulating factor 1|macrophage colony stimulating factor

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Chorioamnionitis
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Inflammation

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- Kidney Failure
- Neoplasms
- Obstetric Labor
- Osteitis Deformans
- Ovarian Neoplasms
- Periodontitis
- Pre-Eclampsia
- Premature Birth

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