

Bioactive

Full-Length

CSF2 (Human) Recombinant Protein

Catalog # P3614

Size 20 ug

Specification

Product Description	Human CSF2 (P04141, 1 a.a. - 144 a.a.) full-length recombinant protein. expressed in <i>Escherichia coli</i> .
Sequence	MWLQSLLLGTVACSIAPARSPSPSTQPWEHVNAIQEARLLNLSRDTAEMNETVEISEMFD LQEPTCLQTRLELYKQGLRGS�TKLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLL VIPFDCWEPVQE
Host	Escherichia coli
Theoretical MW (kDa)	15
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is <= 0.1 ng/mL, corresponding to a specific activity of >= 1 x 10 ⁷ units/mg.
Storage Buffer	Lyophilized from PBS, pH 7.0
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

- SDS-PAGE

Gene Info — CSF2

Entrez GeneID	1437
Protein Accession#	P04141
Gene Name	CSF2
Gene Alias	GMCSF, MGC131935, MGC138897
Gene Description	colony stimulating factor 2 (granulocyte-macrophage)
Omim ID	138960
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q 31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. [provided by RefSeq]
Other Designations	colony stimulating factor 2 granulocyte-macrophage colony stimulating factor molgramostin sargramostim

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Fc epsilon RI signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Blindness](#)
- [Brain Ischemia](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chlamydia Infections](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Erythema Nodosum](#)
- [Esophagitis](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)

- [Leukemia](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pain](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Trachoma](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)