Bioactive

CSF2 (Human) Recombinant Protein

Catalog # P7149 Size 1 mg

Applications

Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human CSF2 (P04141, 18 a.a. - 144 a.a.) partial recombinant protein expressed in *Pichia pastoris*.
Sequence	APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQG LRGSLTKLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE
Host	Yeast
Theoretical MW (kDa)	26-32
Form	Lyophilized
Preparation Method	*Pichia pastoris* expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by gel clotting method)
Activity	ED_{50} < 0.1 ng/ml, measured by proliferation assay using TF-1 cells, corresponding to a specific activity of > 1.0×10^7 units/mg.
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	Result of bioactivity analysis Result of bioactivity analysis

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 fun ction 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 myel ogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. [pr ovided by RefSeq
Other Designations	colony stimulating factor 2|granulocyte-macrophage colony stimulating factor|molgramostin|sargra mostim

Pathway

- Cytokine-cytokine receptor interaction
- Fc epsilon RI signaling pathway
- Hematopoietic cell lineage

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- 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

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- 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

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- Thyroid Neoplasms
- Trachoma
- Urinary Bladder Neoplasms
- Werner syndrome

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