Bioactive

CSF3 (Human) Recombinant Protein

Catalog # P8705 Size 2 x 10 ug

Specification

Product Description	Human CSF3 recombinant protein expressed in CHO cells.
Sequence	TPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLCATYKLCHPEELVLLGHSLGIPWAPLSSCP SQALQLAGCLSQLHSGLFLYQGLLQALEGISPELGPTLDTLQLDVADFATTIWQQMEELGMAPAL QPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSYRVLRHLAQP
Host	Mammals
Theoretical MW (kDa)	18
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purification	chromatographic
Purity	> 97% as determined by SDS-PAGE.
Activity	ED_{50} < 0.07 ng/mL, measured by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake), corresponding to a specific activity of 1.27 x 10^8 IU/mg.
Storage Buffer	Protein (1 mg/mL) was lyophilized from a solution containing 10 mM Hydrochloric Acid, pH=6.5, 0.4 mg TWEEN-20, 100 mg mannitol, 160 mg L-arginine, 40 mg phenylalanine and 4 mg methionine. Re constitute the lyophilized powder in ddH_2O to 100 ug/mL
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

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Gene Info — CSF3

Entrez GeneID	1440
Protein Accession#	P09919
Gene Name	CSF3
Gene Alias	G-CSF, GCSF, MGC45931
Gene Description	colony stimulating factor 3 (granulocyte)
Omim ID	138970
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that controls the production, differentiation, and fun ction of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000164327|colony stimulating factor 3|filgrastim|granulocyte colony stimulating facto r|lenograstim|pluripoietin

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

Disease

- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Carotid Stenosis
- Chorioamnionitis
- Coronary Artery Disease
- Diabetes Mellitus

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- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Hematologic Diseases
- Infant
- Inflammation
- Leukemia
- Lung Neoplasms
- Lymphoma
- Neovascularization
- Obstetric Labor
- Occupational Diseases
- Pre-Eclampsia
- Premature Birth
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Urinary Bladder Neoplasms
- Werner syndrome

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