

Bioactive

CSF3 (Human) Recombinant Protein

Catalog # P8705

Size 2 x 10 ug

Specification

Product Description	Human CSF3 recombinant protein expressed in CHO cells.
Sequence	TPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLCA ^T YKLCHPEELVLLGHSLGIPWAPLSSCP SQALQLAGCLS ^Q LHSGFLYQGLLQALEGISPELGPTLDTLQLDVADFATTWQQMEELGMAPAL QPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSYRVLRLHAQP
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 ₂ O 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

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 function 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 factor 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](#)

- [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](#)