

Product datasheet for TP311109

GM CSF (CSF2) (NM_000758) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human colony stimulating factor 2 (granulocyte-macrophage) (CSF2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211109 protein sequence Red=Cloning site Green=Tags(s)

MWLQSLLLLGTVACISAPARSPSPSTQPWEHVNAIQEARRLLNLSRDTAEMNETVEISEMFDLQEPT
CLQTRLELYKQGLRGLSLTKLKGPLTMMASHYKQHCPTPETSCATQIITFESFKENLKDFLLVIPFCWE
PVQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	14.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000749
Locus ID:	1437
UniProt ID:	P04141



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RefSeq Size: 800

Cytogenetics: 5q31.1

RefSeq ORF: 432

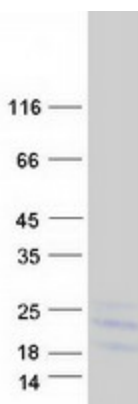
Synonyms: CSF; GMCSF

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 5q31, 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. This gene plays a role in promoting tissue inflammation. Elevated levels of cytokines, including the one produced by this gene, have been detected in SARS-CoV-2 infected patients that develop acute respiratory distress syndrome. Mice deficient in this gene or its receptor develop pulmonary alveolar proteinosis. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: 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

Product images:



Coomassie blue staining of purified CSF2 protein (Cat# TP311109). The protein was produced from HEK293T cells transfected with CSF2 cDNA clone (Cat# [RC211109]) using MegaTran 2.0 (Cat# [TT210002]).