Store at -20C

8929

5 µg

Human CSF-1/M-CSF Recombinant Protein



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Web:

MW (kDa): 16-26	UniProt ID: Entrez-Gene Id: #P09603 1435	
Background	Colony stimulating factor 1 (CSF-1)/macrophage colony stimulating factor (M-CSF) is produced by fibroblasts, endothelial cells, stromal cells, macrophages, osteoblasts, and other cell types (1). CS CSF is required for growth and differentiation of monocytes and macrophages (1,2). CSF-1/M-CS polarizes macrophages into the M2 phenotype where anti-inflammatory IL-10 is produced, rather M1 phenotype where inflammatory cytokines are produced. CSF-1/M-CSF also recruits monocyte enhances angiogenesis by inducing VEGF production (1,2). CSF-1/M-CSF binds to its receptor C downstream signaling involves PI3K/Akt, Erk, and Stats 1, 3, and 5 (1,3). An increase in CSF-1/M expression may contribute to cancer progression, and high plasma CSF-1/M-CSF levels are asso with rheumatoid arthritis (1,4,5).	SF-1/M- F than the s and SF1R; -CSF
Endotoxin	Less than 0.01 ng endotoxin/1 µg hCSF-1/M-CSF.	
Purity	>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hCSF-1 All lots are greater than 98% pure.	L/M-CSF.
Source / Purification	Recombinant human CSF-1/M-CSF Glu33-Ser190 (Accession #P09603-3) was expressed in hum cells at Cell Signaling Technology.	nan 293
Bioactivity	The bioactivity of recombinant hCSF-1M/CSF was determined in a M-NFS-60 cell proliferation as ED ₅₀ of each lot is between 0.5-15.0 ng/ml.	say. The
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Background References	 Hamilton, J.A. (2008) Nat Rev Immunol 8, 533-44. Curry, J.M. et al. (2008) PLoS One 3, e3405. Hamilton, J.A. (1997) J Leukoc Biol 62, 145-55. Rioja, I. et al. (2008) Arthritis Rheum 58, 2257-67. Skrzypski, M. et al. (2008) Clin Cancer Res 14, 4794-9. 	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melar X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	nogaster
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