

Macrophage-Colony Stimulating Factor Rat Recombinant

Item Number	rAP-2159
Synonyms	Macrophage colony-stimulating factor 1, CSF-1, MCSF, Csf1, Csfm.
Description	Macrophage Colony Stimulating Factor Rat Recombinant produced in E.coli is a non-glycosylated homodimer, containing 2 x 155 amino acids and having a total molecular mass of 36.2 kDa. MCSF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q8JZQ0
Amino Acid Sequence	MEVSEHCSTM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFLVLQVI IEETMRFKDN TPNANATERL QELSMKLNCS FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized MCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a sterile filtered aqueous solution containing 10mM Na3PO4, pH 7.5. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized MCSF in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The activity is determined by dose-dependent induction of M-NFS-60 cell proliferation and is typically less than 2 ng/ml. This corresponds to an expected specific activity of 5x10 ⁵ units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**