



Rat M-CSF

Synonyms: Macrophage colony-stimulating factor 1, CSF-1, MCSF, Csf1, Csfm.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
2 µg	1675.970.002		
10 µg	1675.970.010		
1 mg	1675.970.199		

Please enquire for bulk quantities and other vial sizes.

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.

- **Source** *E. coli*
- **Purity** ≥ 95 % (SDS-PAGE)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** Lyophilized from a sterile filtered aqueous solution containing 10mM Na₃PO₄, pH 7.5*
- **Physical State** Sterile filtered, lyophilized

Biological Activity

The activity as determined by dose-dependent induction of M-NFS-60 cell proliferation is 1.65 ng/ml. This corresponds to an expected specific activity of 6.1 x10⁵ units/mg.

Reconstitution

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.

Stability

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, order number: 2835.955.xyz or 2835.958.xyz, or BSA, order number: 2835.919.xyz). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFVLVQVI I EETMRFKDN
 TPANATERL QELSMKLNCS FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN
 DSLAKCSSRD VVTKP

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.