Macrophage Colony Stimulating Factor, His Tag, human recombinant (rHuM-CSF-His)

Catalog No: 97310
Lot No: XXXXX
Source: *E. coli*
Synonyms: CSF-1, Lanimostim, MCSF, MGC31930, M-CSF

Background

Granulocyte/Macrophage Colony-Stimulating Factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Description

Macrophage Colony Stimulating Factor human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 179 amino acids (33-190) and having a total molecular mass of 20.7 kDa. MCSF is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The MCSF protein solution contains 20 mM Tris-HCl, pH 8, 2 mM DTT and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino Acid Sequence

```
MGSSHHHHHH SSGLVPRGSH MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD
IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC
NNSFAECSSQ DVVTKPDCN
```

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.