PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant M-CSF, Human

Catalog Number: BK0127-10μg Source: Escherichia coli. Quantity: 10μg

Description:

Macrophage Colony-Stimulating Factor 1 (M-CSF), involved especially in monocytopoiesis,[1]is a hematopoietic growth factor. In mammals, it exits three isoforms, which invariably share an N-terminal 32-aa signal peptide, a 149-residue growth factor domain, a 21-residue transmembrane region and a 37-aa cytoplasmictail[2]. The biological activity of human M-CSF is maintained within the 149-aa growth factor domain[3], and it is only active in the disulfide-linked dimeric form[4], which is bonded at Cys63.Recombinant human Macrophage Colony-Stimulating Factor 1 (rhM-CSF) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 159 amino acids each. A fully biologically active molecule, rhM-CSF has a molecular mass of 28 kDaanalyzed by non-reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.

Molecular Weight:

28 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by non-reducing SDS-PAGE.

Biological Activity:

ED50 of 1 - 3 ng/ml, measured by cell proliferation assay of M-NFS-60, corresponding to a specific activity of 3.3 x 10^5-1 x 10^6 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50 mM Tris-HCl, pH 8.0.

AA Sequence:

MEEVSEYCSHMIGSGHLQSLQRLID-SQMETSCQITFEFVDQEQLKDPVCYLK-KAFLLVQDIMEDTMRFRD-NTPNAIAIVQLQELSLRLKSCFTKDYEEHDKACV RTFYET-PLQLLEKVKNVFNETKNLLDKDWNIFSKNCNNS FAECSSQGHERQSEGS

Endotoxin:

<1 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS or Tris-HCl, pH 8.0 at 100 μg/ml.

Storage:

Lyophilized recombinant human Macrophage Colony-Stimulating Factor 1 (rhM-CSF) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, rhM-CSF should be stable up to 2 weeks at 4 ℃ or up to 3 months at -20 ℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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