

Bioworld Technology,Inc.

Recombinant M-CSF, Rat

Catalog Number: BK0129-50µg

Source: Escherichia coli.

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Quantity: 50µg

Description:

Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. Interaction of M-CSF with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several types of cancer, including breast and endometrial cancer.Recombinant Rat Macrophage Colony Stimulating Factor (M-CSF) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 155 amino acids each. A fully biologically active molecule, rrM-CSF has a molecular mass of 28 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

28 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of $> 2 \times 10^{5}$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

Formulation:

Lyophilized after extensive dialysis against 50mM

Tris, 150mM NaCl, pH 8.0.

AA Sequence:

MEVSEHCSHMIGNGHLQILQQLIDSQMETA-CLIEYKFVDQEQLDDPVCYLKKAFVLVQVII-EETMRFKDNTPNANATERLQELSMKLNSCF-IKDYKEQNEACVQTYKESPLRLLEKIKNFFNETK NFLEKDWNIFSKNCNDSLAKCSSRDVVTKP

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μ g/ml.

Storage:

Lyophilized recombinant Rat Macrophage Colony Stimulating Factor(M-CSF) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Rat M-CSF should be stable up to 1 week at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

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