

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant M-CSF, Rat

Catalog Number: BK0269-25µg

Source: CHO

Quantity: 25µg

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[1]. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells [2]. M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several diseases, including breast and endometrial cancers [1][3][4].

Molecular Weight:

32-40 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 2.5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 4×10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

EVSEHCSTMIGNHGLQILQQLIDSQMETA-
CLIEYKFVDQEQLDDPVCYLKKAFLVQVII-
EETMRFKDNTPNANATERLQELSMKLNCSF-
IKDYKEQNEACVQTYKESPLRLLEKIKNFFNETK
NFLEKDWNIFFSKNCNSLAKCSSRDVVTKP

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Rat Macrophage-Colony Stimulating Factor (M-CSF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrM-CSF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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