



SMP-SHC-

GMP CGT

# M-CSF

DS-Pr-R-514-A/2

M-CSF  
Recombinant Human M-CSF Protein

/ 10µg / TL-514-0010  
50µg / TL-514-0050

Colony stimulating factor 1, CSF-1  
DNA M-CSF P09603-1  
- 1A63R6EG÷+XSDS-PAGE

6×his

< 0.1EU/µg  
M-NFS-60  
NIBSC 89/512

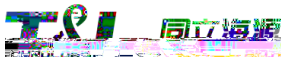
≥1x10<sup>7</sup>IU/mg M-CSF

M-CSF CSF-1  
M-CSF 1 CSF-1  
B T M-CSF

-20  
6 -80 12 PBS 100µg/mL 10µg -20  
200µL

-20

24



1. Praloran V. Structure, biosynthesis and biological roles of monocyte-macrophage colony stimulating factor (CSF-1 or M-CSF). *Nouv Rev Fr Hematol* (1978). 1991;33(4):323-33. PMID: 1838150.
2. Fixe P, Praloran V. M-CSF: haematopoietic growth factor or inflammatory cytokine? *Cytokine*. 1998 Jan;10(1):32-7. doi: 10.1006/cyto.1997.0249. PMID: 9505143.
3. Motoyoshi K. Biological activities and clinical application of M-CSF. *Int J Hematol*. 1998 Feb;67(2):109-22. doi: 10.1016/s0925-5710(98)00010-3. PMID: 9631577.
4. Bourette RP, Rohrschneider LR. Early events in M-CSF receptor signaling. *Growth Factors*. 2000;17(3):155-66. doi: 10.3109/08977190009001065. PMID: 10705574.

2024 05 08

2024 07 31

2025 09 02