

# Human M-CSF Recombinant Protein, PeproTech®

## Product Details

Size	2 µg
Species	Human
Published Species	Dog, Rabbit, Rat, Virus, Non-human primate, Bovine, Hamster, Cat, Mouse, Human
Expression system	E. coli
Amino acid sequence	MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEDH KACVRTFYET PLQLLEKVKV VFNETKNLLD KDOWNIFSKNC NNSFAECSSQ GHERQSEGS
Molecular weight	36.8 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine M-NSF-60 cells 1 ng/ml, corresponding to a specific activity of 1 x 10 <sup>6</sup> units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

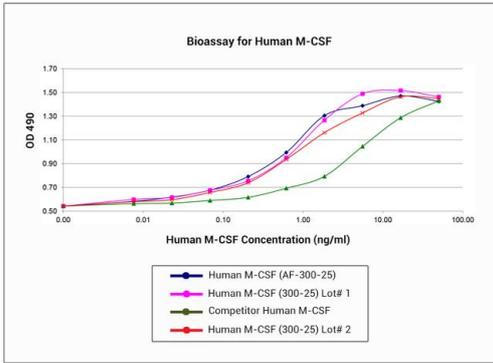
Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	476 Publications
Miscellaneous PubMed (Misc)	-	68 Publications

## Product Specific Information

Recombinant Human M-CSF is a 36.8 kDa homodimeric protein consisting of two 159 amino acid polypeptide subunits.

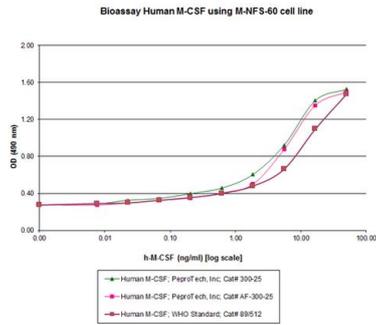
This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

## Product Images For Human M-CSF Recombinant Protein, PeproTech®



### Human M-CSF Protein (300-25-2UG) in Functional

Bioassay analysis of Human M-CSF Recombinant Protein, PeproTech® (Product # 300-25-1MG).



### Human M-CSF Protein (300-25-2UG) in Functional

WHO Comparison of Human M-CSF Recombinant Protein, PeproTech® (Product # 300-25-1MG).

In vitro Assay (476)

Communications biology

**RUNX1 interacts with lncRNA SMANTIS to regulate monocytic cell functions.**

"300-25 was used in Cell Culture to reveal that SMANTIS binds RUNX1, a transcription factor frequently mutated in AML, primarily through its Alu-element on the RUNT domain."

Authors: Weiss LM,Warwick T,Zehr S,Günther S,Wolf S,Schmachtel T,Izquierdo Ponce J,Pálfi K,Teichmann T, Schneider A,Stötzel J,Knapp S,Weigert A,Savai R,Rieger MA,Oellerich T,Wittig I,Oo JA,Brandes RP,Leisegang MS

Year  
2024

Species  
Human

Nature

**Tuberculosis in otherwise healthy adults with inherited TNF deficiency.**

"300-25 was used in Cell Culture to report two adults with recurrent pulmonary tuberculosis who are homozygous for a private loss-of-function TNF variant."

Authors: Arias AA,Neehus AL,Ogishi M,Meynier V,Krebs A,Lazarov T, Lee AM,Arango-Franco CA,Yang R,Orrego J, Corcini Berndt M,Rojas J,Li H,Rinchai D,Erazo-Borrás L,Han JE,Pillay B,Ponsin K,Chaldebas M,Philippot Q,Bohlen J, Rosain J,Le Voyer T,Janotte T,Amarajeewa K,Soudée C,Brollo M,Wiegmann K,Marquant Q,Seeleuthner Y,Lee D,Lainé C,Kloos D,Bailey R,Bastard P,Keating N,Rapaport F,Khan T,Moncada-Vélez M,Carmona MC,Obando C,Alvarez J, Cataño JC,Martínez-Rosado LL,Sánchez JP,Tejada-Giraldo M,L'Honneur AS,Agudelo ML,Pérez-Zapata LJ,Arboleda DM,Alzate JF,Cabarcas F,Zuluaga A,Pelham SJ,Ensser A,Schmidt M,Velásquez-Lopera MM,Jouanguy E,Puel A, Krönke M,Ghirardello S,Borghesi A,Pahari S,Boisson B,Pittaluga S,Ma CS,Emile JF,Notarangelo LD,Tangye SG,Marr N,Lachmann N,Salvator H,Schlesinger LS,Zhang P,Glickman MS,Nathan CF,Geissmann F,Abel L,Franco JL, Bustamante J,Casanova JL,Boisson-Dupuis S

Year  
2024

Species  
Human

[View more IV references on thermofisher.com](#)

Miscellaneous PubMed (68)

Cellular and molecular life sciences : CMLS

**Heterozygous expression of the Alzheimer's disease-protective PLC2 P522R variant enhances A clearance while preserving synapses.**

"300-25 was used in Sample Preparation to investigate P522R in Alzheimer's disease."

Authors: Solomon S,Sampathkumar NK,Carre I,Mondal M,Chennell G,Vernon AC,Ruepp MD,Mitchell JC

Year  
2022

Species  
Human

Cancers

**Targeting Immunosuppressive Tumor-Associated Macrophages Using Innate T Cells for Enhanced Antitumor Reactivity.**

"300-25 was used in Sample Preparation (FC/FACS) to evaluate the targeting efficacy CAR-engineered T cells on MAIT, iNKT, and T cells."

Authors: Li YR,Brown J,Yu Y,Lee D,Zhou K,Dunn ZS,Hon R,Wilson M,Kramer A,Zhu Y,Fang Y,Yang L

Year  
2022

Species  
Human

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