

CSF1R Protein, Human (HEK293, C-His-Avi)

Cat. No.:	HY-P73510
Synonyms:	Macrophage colony-stimulating factor 1 receptor; CSF-1R; M-CSF-R; CD115; CSF1R; FMS; CSF-1-R; CSFR; FMSFIM2; M-CSF R; MCSFR; M-CSFR; C-FMS; FIM2; HDLS
Species:	Human
Source:	HEK293
Accession:	P07333-1 (I20-E512)
Gene ID:	1436
Molecular Weight:	75-105 kDa

PROPERTIES

AA Sequence	<pre> I P V I E P S V P E L V V K P G A T V T L R C V G N G S V E W D G P P S P H W T L Y S D G S S S I L S T N N A T F Q N T G T Y R C T E P G D P L G G S A A I H L Y V K D P A R P W N V L A Q E V V V F E D Q D A L L P C L L T D P V L E A G V S L V R V R G R P L M R H T N Y S F S P W H G F T I H R A K F I Q S Q D Y Q C S A L M G G R K V M S I S I R L K V Q K V I P G P P A L T L V P A E L V R I R G E A A Q I V C S A S S V D V N F D V F L Q H N N T K L A I P Q Q S D F H N N R Y Q K V L T L N L D Q V D F Q H A G N Y S C V A S N V Q G K H S T S M F F R V V E S A Y L N L S S E Q N L I Q E V T V G E G L N L K V M V E A Y P G L Q G F N W T Y L G P F S D H Q P E P K L A N A T T K D T Y R H T F T L S L P R L K P S E A G R Y S F L A R N P G G W R A L T F E L T L R Y P P E V S V I W T F I N G S G T L L C A A S G Y P Q P N V T W L Q C S G H T D R C D E A Q V L Q V W D D P Y P E V L S Q E P F H K V T V Q S L L T V E T L E H N Q T Y E C R A H N S V G S G S W A F I P I S A G A H T H P P D E </pre>
Biological Activity	Immobilized Human M-CSF R, His Tag at 1 µg/mL (100 µl/Well). Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC ₅₀ of 6.0 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The CSF1R protein, particularly found in mononuclear phagocytes like macrophages and monocytes, is involved in various biological processes. It promotes the release of pro-inflammatory chemokines in response to IL34 and CSF1, contributing to innate immunity and inflammatory processes. Additionally, CSF1R is crucial for regulating osteoclast proliferation and differentiation, bone resorption, normal bone and tooth development. It is also required for normal fertility in both males and females, as well as for the development of milk ducts and acinar structures in the mammary gland during pregnancy.

Caution: Product has not been fully validated for medical applications. For research use only.

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