

CSF1R Protein, Human (HEK293, His-Flag)

Cat. No.:	HY-P700511
Synonyms:	rCynReceptor protein-tyrosine kinase/CSF1R, His; Macrophage colony-stimulating factor 1 receptor; CSF-1 receptor; CSF-1-R; CSF-1R; M-CSF-R; Proto-oncogene c-Fms; CD115; CSF1R; FMS
Species:	Human
Source:	HEK293
Accession:	P07333 (I20-E512)
Gene ID:	1436
Molecular Weight:	57.7 kDa

PROPERTIES

AA Sequence

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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
  
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Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

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 ddH₂O.

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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