

## G-CSFR/CD114 Protein, Human (HEK293, His-Flag)

<b>Cat. No.:</b>	HY-P700528
<b>Synonyms:</b>	colony stimulating factor 3 receptor (granulocyte); CD114; granulocyte colony-stimulating factor receptor; GCSFR; G-CSF-R; CD114 antigen; G-CSF receptor;
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q99062 (E25-P621)
<b>Gene ID:</b>	1441
<b>Molecular Weight:</b>	69.8 kDa

### PROPERTIES

#### AA Sequence

ECGHISVSAP	IVHLGDPITA	SCIIKQNC SH	LDPEPQILWR
LGAE LQPGGR	QQR LSDGTQE	SIITLPHLNH	TQAF LSCCLN
WGN SLQILDQ	VELRAGYPPA	IPHNLSCLMN	LTTSSLICQW
EPGPETHLPT	SFTLKSFKSR	GNCQTQGDSI	LDCVPKDGQS
HCCI PRKHLL	LYQNMGIWVQ	AENALGTSMS	PQLCLDPM DV
VKLEPPMLRT	MDPSPEAAP	QAGCLQLCWE	PWQPGLHINQ
KCELRHKPQR	GEASWALVGP	LPLEALQYEL	CGLLPATAYT
LQIRCI RWPL	PGHWS DWSPS	LELR TTERAP	TVRLDTWWRQ
RQLDPR TVQL	FWKPVPLEED	SGRIQGYVVS	WRPSGQAGAI
LPLCNTTELS	CTFHLPSEAQ	EVALVAYNSA	GTSRPTPVVF
SESRGPALTR	LHAMARDPHS	LWVGWEP PNP	WPQGYVIEWG
LGPPSASNSN	KTWRMEQNGR	ATGFLLKENI	RPFQLYE IIV
TPLYQDTMGP	SQH VYAYSQE	MAPSHAPELH	LKHIGKTWAQ
LEWVPEPPEL	GKSP LTHYTI	FWTNAQNQSF	SAILNASSRG
FVLHGLEPAS	LYHIHLMAAS	QAGATNSTVL	TLMTLTP

**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 ddH<sub>2</sub>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

G-CSFR/CD114, the receptor for granulocyte colony-stimulating factor (CSF3), holds a pivotal role in orchestrating granulocytic maturation by governing the proliferation, differentiation, and survival of cells along the neutrophilic lineage. This homodimeric receptor engages with two CSF3 molecules, forming a crucial interaction that regulates essential cellular processes. Beyond its involvement in cellular maturation, G-CSFR/CD114 may contribute to adhesion or recognition events at the cell surface. Furthermore, its interaction with CEACAM1 serves as a regulatory axis, down-regulating the CSF3R-STAT3 pathway by recruiting PTPN6, which subsequently dephosphorylates CSF3R and modulates cellular signaling dynamics.

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

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