

G-CSFR/CD114 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P72634		
Synonyms:	Granulocyte colony-stimulating factor receptor; G-CSF-R; CD114; CSF3R; GCSFR		
Species:	Human		
Source:	HEK293		
Accession:	Q99062 (E25-H627)		
Gene ID:	1441		
Molecular Weight:	Approximately 110.17 kDa		

PROPERTIES

AA Sequence						
/ ar ocqueriee	ECGHISVSAP	IVHLGDPITA	SCIIKQNCSH	LDPEPQILWR		
	LGAELQPGGR	QQRLSDGTQE	SIITLPHLNH	TQAFLSCCLN		
	WGNSLQILDQ	VELRAGYPPA	IPHNLSCLMN	LTTSSLICQW		
	EPGPETHLPT	SFTLKSFKSR	GNCQTQGDSI	LDCVPKDGQS		
	HCCIPRKHLL	LYQNMGIWVQ	AENALGTSMS	P Q L C L D P M D V		
	VKLEPPMLRT	М Р Р Р Е А А Р Р	QAGCLQLCWE	PWQPGLHINQ		
	KCELRHKPQR	GEASWALVGP	LPLEALQYEL	CGLLPATAYT		
	LQIRCIRWPL	PGHWSDWSPS	LELRTTERAP	T V R L D T W W R Q		
	RQLDPRTVQL	FWKPVPLEED	SGRIQGYVVS	WRPSGQAGAI		
	LPLCNTTELS	CTFHLPSEAQ	EVALVAYNSA	GTSRPTPVVF		
	SESRGPALTR	LHAMARDPHS	LWVGWEPPNP	WPQGYVIEWG		
	LGPPSASNSN	K T W R M E Q N G R	ATGFLLKENI	RPFQLYEIIV		
	T P L Y Q D T M G P	SQHVYAYSQE	МАРЅНАРЕLН	LKHIGKTWAQ		
	LEWVPEPPEL	GKSPLTHYTI	FWTNAQNQSF	SAILNASSRG		
	FVLHGLEPAS	LYHIHLMAAS	Q A G A T N S T V L	TLMTLTPEGS		
	ELH					
	Manager and in a call analife					
BIOLOGICALACTIVITY	Measured in a cell proliferation assay using M-NFS-60 cells. The ED ₅₀ this effect is 0.9517 μ g/mL, corresponding to a spec					
	activity is 1.05×10°3 units/mg in the presence of 0.125 ng/mL of recombinant numan G-CSF.					
Appoaranco	Lyophilized powder					
Арреагансе	Lyophilized powder.					
Formulation	Lyophilized from 2.0.2 um filtered solution of PRS pH 7.4 or 20 mM PR 150 mM NaCl pH 7.4					
Tormatation	Lyophilized form a 0.2 μ m intered solution of PDS, pr 7.4 of 20 mm PD, 150 mm NaCl, pr 7.4.					
Endotoxin Level	<1 FU/ug determined by LAL method					
Endotoxin Level	$\sim 1 co/\mu g$, determined by the method.					
Reconsititution	Ution It is not recommanded to reconstitute to a concentration less than 100 ug/m in ddH-O. For long term storage it is					
recommended to add a carrier protein (0.1% BSA 5% HSA 10% FBS or 5% Trebalose)						
	1000 Fb or 570 Fb					
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					
storage a stability	recommended to freeze aliquots at -20°C or -80°C for extended storage					
	recommended to neeze a		Interfaced 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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