Proteins



Product Data Sheet

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

Cat. No.: HY-P75694

Synonyms: Granulocyte colony-stimulating factor receptor; G-CSF-R; CD114; CSF3R; GCSFR

Species: Source: HEK293

Accession: Q99062-1 (E25-H627)

Gene ID: 1441

Molecular Weight: 90-110 kDa

PROPERTIES

AA Sequence				
	ECGHISVSAP	IVHLGDPITA	SCIIKQNCSH	LDPEPQILWR
	LGAELQPGGR	QQRLSDGTQE	SIITLPHLNH	TQAFLSCCLN
	WGNSLQILDQ	VELRAGYPPA	IPHNLSCLMN	LTTSSLICQW
	EPGPETHLPT	SFTLKSFKSR	GNCQTQGDSI	LDCVPKDGQS
	HCCIPRKHLL	LYQNMGIWVQ	AENALGTSMS	PQLCLDPMDV
	VKLEPPMLRT	MDPSPEAAPP	QAGCLQLCWE	PWQPGLHINQ
	KCELRHKPQR	GEASWALVGP	LPLEALQYEL	CGLLPATAYT
	LQIRCIRWPL	PGHWSDWSPS	LELRTTERAP	TVRLDTWWRQ
	RQLDPRTVQL	FWKPVPLEED	SGRIQGYVVS	WRPSGQAGAI
	LPLCNTTELS	CTFHLPSEAQ	EVALVAYNSA	GTSRPTPVVF
	SESRGPALTR	LHAMARDPHS	LWVGWEPPNP	WPQGYVIEWG
	LGPPSASNSN	KTWRMEQNGR	ATGFLLKENI	RPFQLYEIIV
	TPLYQDTMGP	SQHVYAYSQE	MAPSHAPELH	LKHIGKTWAQ
	LEWVPEPPEL	GKSPLTHYTI	FWTNAQNQSF	SAILNASSRG
	FVLHGLEPAS	LYHIHLMAAS	QAGATNSTVL	TLMTLTPEGS
	ELH			
Biological Activity	Immobilized Human G-CSF R, His Tag at 1 μg/mL (100 μl/well) on the plate. Dose response curve for Human G-CSF, hFc			
Diotogical/ictivity	with the EC ₅₀ of \leq 6.0 ng/s		proversion the plate. Dose i	esponse curve for Human G est, in
	With the 2050 of 2 0.0 Hg/	The determined by EE1071.		
Appearance	Lyophilized powder			
P P · · · · ·	7.1			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80			
	added as protectants before lyophilization.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ 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 a	aliquots at -20°C or -80°C for	extended storage	

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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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