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

Cat. No.:	HY-P700725
Synonyms:	G-CSF-R; G-CSF R; CD114; G CSF R; CSF3R; Csfgr; GCSFR
Species:	Mouse
Source:	HEK293
Accession:	P40223 (C26-D626)
Gene ID:	12986
Molecular Weight:	90-110 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 Protein acts as the receptor for granulocyte colony-stimulating factor (CSF3) and may additionally play a role in certain adhesion or recognition events at the cell surface. Existing as a homodimer, the receptor binds two CSF3 molecules, facilitating the transduction of signals related to granulocyte development and function. Moreover, G-CSFR/CD114 interacts with CEACAM1, leading to the down-regulation of the CSF3R-STAT3 pathway. This process involves the recruitment of PTPN6, which subsequently dephosphorylates CSF3R, revealing a regulatory aspect of G-CSFR/CD114 in modulating signaling pathways associated with granulocyte colony-stimulating factor responses. These interactions highlight the intricate regulatory roles of G-CSFR/CD114 in cellular processes related to immune responses and hematopoiesis.

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