Recombinant Human CSF1R/CD115 Protein (aa 20-517, His Tag)

Catalog Number: PKSH032013

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

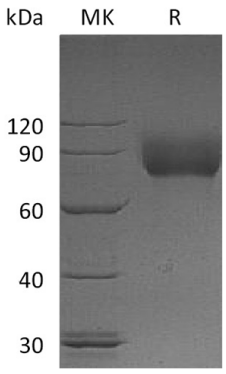
Description

Species	Human
Source	HEK293 Cells-derived Human CSF1R;CD115 protein Ile20-Pro517, with an C-terminal His
Calculated MW	55.9 kDa
Observed MW	80-110 kDa
Accession	P07333
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Macrophage colony-stimulating factor 1 receptor (CSF1R) is a member of the type III subfamily of receptor tyrosine kinases that also includes receptors for SCF and PDGF. These receptors each contain five immunoglobulin-like domains in their extracellular domain (ECD) and a split kinase domain in their intracellular region. CSF1R is expressed primarily on cells of the monocyte/macrophage lineage; dendritic cells; stem cells and in the developing placenta. CSF1 and its receptor (CSF1R; product of c-fms proto-oncogene) were initially implicated as essential for normal monocyte development as well as for trophoblastic implantation. It plays an important role in the regulation of osteoclast proliferation and differentiation; the regulation of bone resorption; and is required for normal bone and tooth development. It is required for normal male and female fertility; and for normal development of milk ducts and acinar structures in the mammary gland during pregnancy. Aberrant expression of CSF1 or CSF1R may play a role in inflammatory diseases; such as rheumatoid arthritis; glomerulonephritis; atherosclerosis; and allograft rejection.