Active Recombinant Human CSF2RB Protein, Fc Tagged

Cat. No. CSF2RB-11249H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD131, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Trp 17-Trp 443 (Accession # P32927-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Trp 17
Species	Human
Source	HEK293
ProteinLength	17-443 aa
Description	CD131- the common β Subunit, is a member of the type 1 cytokine receptor family. There are three major classes of heteroreceptor complexes, where the receptor complex utilises a common shared receptor subunit as a signal-transducing chain along with a cytokine specific subunit. These three classes include those which use gp130, those which use γc and those which use the common β subunit, βc(CD131). CD131 is shared by three of the “four-helical bundle” family of cytokines; IL-3, IL-5 and GM-CSF, and forms a receptor complex along with a cytokine specific α chain for each of these cytokines.Moreover, even though each of these cytokines have their own specific α subunit, the co-utilisation of CD131 suggests a common intra-cellular process of both unique and/or overlapping activities on expressing cells.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

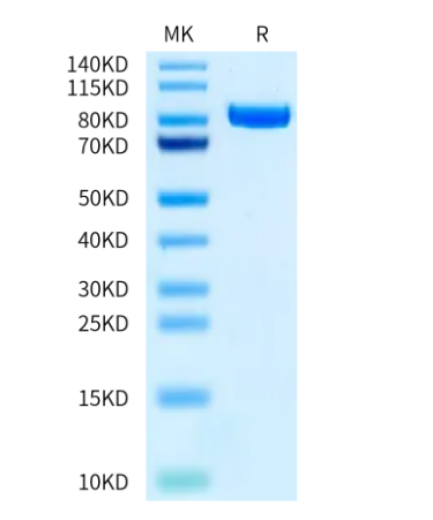
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Bio-activity	Loaded Human CD131, Fc Tag on Protein A Biosensor, can bind Human GM-CSF, premium grade with an affinity constant of 7.4 μM as determined in BLI assay.
Molecular Mass	The protein has a calculated MW of 75.1 kDa. The protein migrates as 80-100 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CSF2RB colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) [Homo sapiens (human)]
Official Symbol	CSF2RB
Synonyms	CSF2RB; colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage); IL3RB; cytokine receptor common subunit beta; CD131; IL5RB; GM-CSF/IL-3/IL-5 receptor common beta-chain; GM-CSF/IL-3/IL-5 receptor common beta subunit; colony-stimulating factor-2 receptor, beta, low-affinity; interleukin 3

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	receptor/granulocyte-macrophage colony stimulating factor 3 receptor, beta (high affinity); SMDP5; CDw131;
Gene ID	1439
mRNA Refseq	NM_000395
Protein Refseq	NP_000386
MIM	138981
UniProt ID	P32927
SDS-PAGE	

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