Active Recombinant Full Length Human CD33 Protein, C-Flag-tagged

Cat. No. CD33-139HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CD33 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state. Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans. Upon engagement of ligands such as C1q or syalylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK. These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2. In turn, these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules. One of the repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase/PI3K.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Association in cell culture
Molecular Mass	38 kDa

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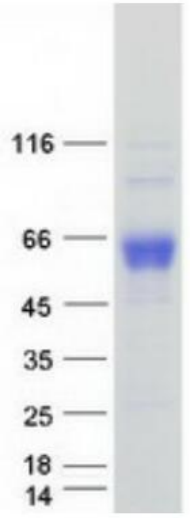
AA Sequence	MPLLLLLPLLWAGALAMDPNFWLQVQESVTVQEGLCVLVPCTFFHPIPYYDKNSPVH GYWFREGAIISGD SPVATNKLDQEVQEETQGRFRLLGDPSRNNCSLSIVDARRRDN GSYFFRMERGSTKYSYKSPQLSVHVTD LTHRPKILIPGTLEPGHSKNLTCSVSWAC EQGTPPIFSWLSAAPTSLGPRTTHSSVLIITPRPQDHGTNL TCQVKFAGAGVTTERTI QLNVTYVPQNPTTGIFPGDGSGKQETRAGVVHGAIGGAGVTALLALCLCLIFF IVKTH RRKAARTAVGRNDTHPTTGSASPKHQKKSKLHGPTETSSCSGAAPTVEMDEELHY ASLNFHGMNP SKDTSTEYSEVRTQTRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Hematopoietic cell lineage
Full Length	Full L.

GENE INFORMATION

Gene Name	CD33 CD33 molecule [Homo sapiens (human)]

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Official Symbol	CD33
Synonyms	p67; SIGLEC3; SIGLEC-3
Gene ID	945
mRNA Refseq	NM_001772.4
Protein Refseq	NP_001763.3
MIM	159590
UniProt ID	P20138



Coomassie blue staining of purified CD33 protein.

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