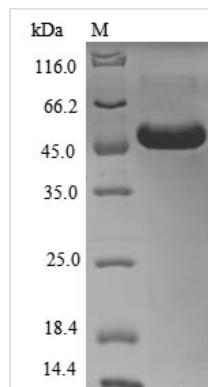




Recombinant Human Myeloid cell surface antigen CD33 (CD33), partial

Product Code	CSB-EP004925HU
Relevance	Putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Induces apoptosis in acute myeloid leukemia
Abbreviation	Recombinant Human CD33 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P20138
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	DPNFWLQVQESVTVQEGLCVLPCTFFHPIPIYYDKNSPVHGYWFRGAIISRD SPVATNKLDQEVQEETQGRFRLLGDPSRNNCSLSIVDARRRDNGSYFFRMER GSTKYSYKSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCVSWACEQGTPPI FSWLSAAPTSLGPRTTTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTTERTIQLN VTYVPQNPTTGIFPGDGSGKQETRAGVVH
Research Area	Immunology
Source	E.coli
Target Names	CD33
Protein Names	Sialic acid-binding Ig-like lectin 3 Short name: Siglec-3 gp67 CD_antigen: CD33 SIGLEC3
Expression Region	48-259aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	46.7 kDa
Protein Length	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The gene encoding the Human CD33 protein (18-259aa) is incorporated into a plasmid vector to generate recombinant plasmid, which is then introduced into e.coli cells. The e.coli cells containing the recombinant plasmid are selected and cultured under conditions that stimulate the expression of the gene of interest. A N-terminal 10xHis-SUMO tag and C-terminal Myc tag is attached to the protein. After expression, affinity purification is employed to isolate and purify the recombinant Human CD33 protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human CD33 protein, revealing a purity level exceeding 85%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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