

## Recombinant Human CD33 molecule, His-tagged

**Cat. No.** CD33-487H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CD33,18-259aa Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 18-259 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | CD33 is putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. It 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, CD33 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. This protein induces apoptosis in acute myeloid leukemia (in vitro). Recombinant human CD33 protein, fused to His-tag at N-terminus, was expressed in E.coli. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 29.1 kDa (265aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSDPNFWLQ VQESVTVQEG LCVLVPCTFF<br>HPIPYDYKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG<br>DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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PKILIPGTLE PGHSKNLTCS VSWACEQGTP PIFSWLSAAP TSLGPRTHS  
SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPPTTGIFP  
GDGSGKQETR AGVVH

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [CD33](#) [CD33 molecule \[ Homo sapiens \]](#)

**Official Symbol** CD33

**Synonyms** CD33; CD33 molecule; CD33 antigen (gp67); myeloid cell surface antigen CD33; FLJ00391; p67; sialic acid binding Ig like lectin 3; SIGLEC 3; SIGLEC3; gp67; sialic acid binding Ig-like lectin 3; sialic acid-binding Ig-like lectin 3; SIGLEC-3;

**Gene ID** [945](#)

**mRNA Refseq** [NM\\_001082618](#)

**Protein Refseq** [NP\\_001076087](#)

**MIM** [159590](#)

**UniProt ID** [P20138](#)

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|----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 19q13.3                                                                                                   |
| <b>Pathway</b>             | Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; |
| <b>Function</b>            | receptor activity; sugar binding;                                                                         |

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