

Recombinant Human CD33 molecule, His-tagged

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

SPECIFICATION

Product Overview	CD33,18-259aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	18-259 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	29.1 kDa (265aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSDPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYDYKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG 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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Chromosome Location	19q13.3
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	receptor activity; sugar binding;

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