

---

**Product Data Sheet**


---

Product Name: CD33 Human  
 Cat. No.: GP23048  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD33Molecule; CD33Antigen (Gp67); Sialic AcidBinding Ig-Like Lectin 3; Sialic Acid-Binding Ig-Like Lectin 3; SIGLEC3; gp67; SIGLEC-3; Myeloid Cell Surface AntigenCD33; p67; Siglec-3; CD33Antigen.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYDKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFLLG DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR PKILIPGTLE PGHSKNLTCV VSWACEQGTP PIFSWLSAAP TSLGPRTTTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPTTGIFP GDGSGKQETR AGVVH.		
Formulation	CD33 protein solution (1mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.4M Urea, and 10% glycerol.		

**Introduction**

CD33 is putative adhesion molecule of myelomonocytic-derived cells which mediates sialic-acid dependent binding to cells. CD33 prefers to bind to  $\alpha$ -2,6-linked sialic acid. The sialic acid recognition site is masked by cis interactions with sialic acids on the same cell surface. In the immune response, CD33 performs as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatases through their SH2 domains which block signal transduction through dephosphorylation of signaling molecules. In addition, CD33 induces apoptosis in acute myeloid leukemia.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

HSA or BSA). Please avoid freeze thaw cycles.

### Background

CD33 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 265 amino acids (18-259 a.a) and having a molecular mass of 29.1kDa. CD33 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**