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**Product Data Sheet**


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Product Name: CD33 Human, Sf9  
 Cat. No.: GP23049  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myeloid cell surface antigen CD33 isoform 1; CD33; FLJ00391; p67; SIGLEC-3; SIGLEC3; gp67.		
Amino Acid Sequence	ADLDPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYDYDKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG DPSRNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR PKILIPGTLE PGHKNLTC VSWACEQGTP PIFSWLSAAP TSLGPRTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPTTGIFP GDGSGKQETR AGVVHLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELTKNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH.		
Formulation	CD33 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) & 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 perform 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

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CD33 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (18-259 a.a.) and fused to a 239 aa hlgG-His Tag at C-terminus containing a total of 484 amino acids and having a molecular mass of 54kDa. CD33 shows multiple bands between 50-70kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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