

# Recombinant human Siglec-3/CD33 protein

Catalog Number: ATGP3687

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

18-259aa

### UniProt No.

P20138

### NCBI Accession No.

NP\_001763

### Alternative Names

SIGLEC-3, SIGLEC3, Sialic acid-binding Ig-like lectin 3, p67, Myeloid cell surface antigen CD33 isoform 1, Myeloid cell surface antigen CD33, FLJ00391, CD33 molecule, CD33

## PRODUCT SPECIFICATION

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### Molecular Weight

54 kDa (484aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD33, also known as myeloid cell surface antigen CD33 isoform 1, is a member of the Ig superfamily that is restricted to cells of the myelomonocytic lineage but whose functions and binding properties are unknown. It can function as a sialic acid-dependent cell adhesion molecule and that binding can be modulated by endogenous

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sialoglycoconjugates when it is expressed in a plasma membrane. It is usually considered myeloid-specific, but it can also be found on some lymphoid cells. It contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that are implicated in inhibition of cellular activity. It has been identified to modulate the risk of Alzheimer's disease (AD) in several recent genome-wide association studies (GWAS) in Caucasians. Recombinant human CD33, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

ADLDPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYDKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG  
 DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR PKILIPGTLE PGHSKNLTCS VSWACEQGTP  
 PIFSWLSAAP TSLGPRTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPPTTGIFP GDGSGKQETR  
 AGVVHLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT  
 KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELTA KNQVSLTCLV  
 KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH  
 HHHH

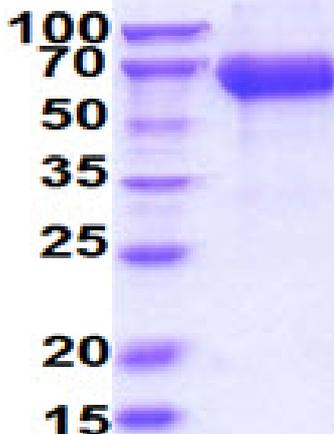
## General References

Freeman SD., et al. (1995) *Blood*. 85:2005-2012.  
 Ulyanova T., et al. (1999) *Eur J Immunol*. 29:3440-3449.

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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 15% SDS-PAGE (3ug)