Recombinant human Siglec-3/CD33 protein

Catalog Number: ATGP3687

PRODUCT INFORMATION

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

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

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

Recombinant human Siglec-3/CD33 protein

Catalog Number: ATGP3687

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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

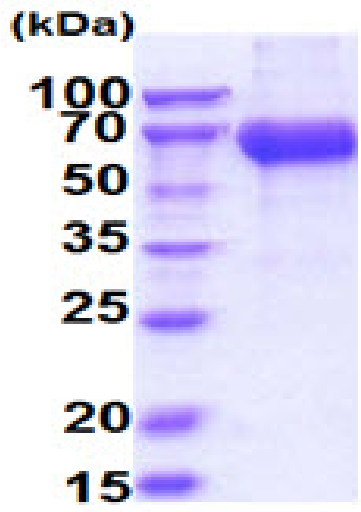
ADLDPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYYDKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR PKILIPGTLE PGHSKNLTCS VSWACEQGTP PIFSWLSAAP TSLGPRTTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPTTGIFP GDGSGKQETR AGVVHLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPVLD 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



15% SDS-PAGE (3ug)

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