

Recombinant human Siglec-3/CD33 protein

Catalog Number: ATGP2584

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-259aa

UniProt No.

P20138

NCBI Accession No.

AAH28152

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

29.1 kDa (265aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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 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

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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.

Amino acid Sequence

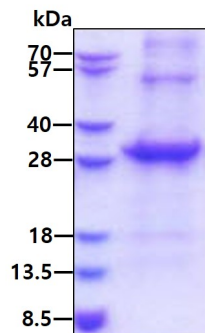
<MGSSHHHHHH SSGLVPRGSH MGS>DPNFWLQ VQESVTVQEG LCVLPCTFF HPIPYDKNS PVHGYWFREG
 AIISGDSPVA TNKLDQEVQE ETQGRFRLG DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR
 PKILIPGTLE PGHKNLTCS VSWACEQGTP PIFSWLSAAP TSLGPRTTTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE
 RTIQLNVTYV PQNPPTTGIFP GDGSGKQETR AGVVH

General References

ulyanova T., et al. (1999) Eur. J. Immunol. 29:3440-3449
 Vitale C., et al. (2001) Proc. Natl. Acad. Sci. u.S.A. 98:5764-5769

DATA

SDS-PAGE



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