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

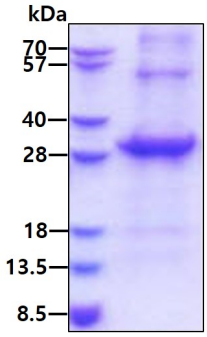
<MGSSHHHHHH SSGLVPRGSH MGS>DPNFWLQ VQESVTVQEG LCVLVPCTFF HPIPYYDKNS PVHGYWFREG AIISGDSPVA TNKLDQEVQE ETQGRFRLLG DPSRNNCSLS IVDARRRDNG SYFFRMERGS TKYSYKSPQL SVHVTDLTHR PKILIPGTLE PGHSKNLTCS VSWACEQGTP PIFSWLSAAP TSLGPRTTHS SVLIITPRPQ DHGTNLTCQV KFAGAGVTTE RTIQLNVTYV PQNPTTGIFP GDGSGKQETR AGVVH

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