

Recombinant human Siglec-10 protein

Catalog Number: ATGP3872

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

17-455aa

UniProt No.

Q96LC7

NCBI Accession No.

NP_001164628

Alternative Names

SIGLEC10, PRO940, SLG2, SIGLEC-10, Sialic acid-binding Ig-like lectin 10 isoform 3, Siglec-like protein 2

PRODUCT SPECIFICATION

Molecular Weight

75.6 kDa (678aa)

Concentration

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

Formulation

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

Purity

> 85% 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

Siglec-10, also known as Sialic acid binding Ig like lectin 10 isoform 3, is a member of the immunoglobulin superfamily that is expressed on eosinophils, neutrophils, monocytes, and B cells. This protein bears an Immunoreceptor tyrosine based inhibitory motif within its cytoplasmic domain. It is a ligand for CD52, the target of the therapeutic monoclonal antibody Alemtuzumab. Also, it binds to Vascular adhesion protein 1 (VAP-1) and to the

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co-stimulatory molecule CD24. This binding can be modulated by cis interactions of Siglec-10 with sialated molecules on the same cell. Recombinant human Siglec-10, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

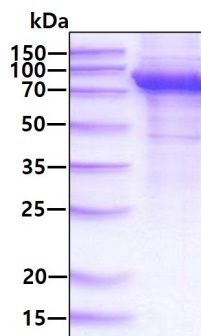
MDGRFWIRVQ ISVMVPEGLC ISVPCSFSYP RQDWTGSTPA YGYWFKAVTE TTKGAPVATN HQSREVEMST RGRFQLTGDP
AKGNCSLVIR DAQMQDESQY FFRVERGSYV RYNFMNDGFF LKVTALTQKP DVYIPETLEP GQPVTVICVF NWAFEECPPP
SFSWTGAALS SQGTKPTTSH FSVLSFTPRP QDHNTDLTCH VDFSRKGVSA QRTVRLRVAY APRDLVISIS RDNTPALEPQ
PQGNVPYLEA QKGQFLRLLC AADSQPPATL SWVLQNRVLS SShPWGPRPL GLELPGVKAG DSGRYTCRAE NRLGSQQRAL
DLSVQYPPEN LRVMSQANR TVLENLGNGT SLPVLEGQSL CLVCVTHSSP PARLSWTQRG QVLSPSQPSD PGVLELPRVQ
VEHEGEFTCH ARHPLGSQHV SLSLSVHYKK GLISTAFSN<L EPKSCDKTHT CPPCPPELL GGPSVFLFPP KPKDTLMISR
TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT
ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLDSGDSFF LYSKLTVDKS
RWQQGNVFSC SVMHEALHNNH YTKSLSLSP GKHHHHHH>

General References

Zhang P., et al, (2015) J. Surg. Res. 194:107-113.
Li N., et al, (2001) J. Biol. Chem. 276:28106-28112.

DATA

SDS-PAGE



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