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 Immuno-receptor 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

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

Amino acid Sequence

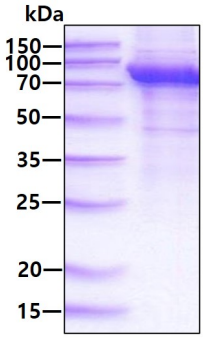
MDGRFWIRVQ ESVMVPEGLC ISVPCSFSYP RQDWTGSTPA YGYWFKAVTE TTKGAPVATN HQSREVEMST RGRFQLTGDP AKGNCSLVIR DAQMQDESQY FFRVERGSYV RYNFMNDGFF LKVTALTQKP DVYIPETLEP GQPVTVICVF NWAFEECPPP SFSWTGAALS SQGTKPTTSH FSVLSFTPRP QDHNTDLTCH VDFSRKGVSA QRTVRLRVAY APRDLVISIS RDNTPALEPQ PQGNVPYLEA QKGQFLRLLC AADSQPPATL SWVLQNRVLS SSHPWGPRPL GLELPGVKAG DSGRYTCRAE NRLGSQQRAL DLSVQYPPEN LRVMVSQANR TVLENLGNGT SLPVLEGQSL CLVCVTHSSP PARLSWTQRG QVLSPSQPSD PGVLELPRVQ VEHEGEFTCH ARHPLGSQHV SLSLSVHYKK GLISTAFSN<L EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTTP PVLDSDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP 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