

Recombinant human Siglec-2/CD22 protein

Catalog Number: ATGP3707

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-687aa

UniProt No.

P20273

NCBI Accession No.

NP_001762

Alternative Names

B-cell receptor CD22 isoform 1, CD22, SIGLEC-2, SIGLEC2

PRODUCT SPECIFICATION

Molecular Weight

102.1 kDa (907aa)

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

CD22, also known as B-cell receptor CD22 isoform 1, is a member of the immunoglobulin (Ig) superfamily. It mediates B-cell to B-cell interactions and is involved in the localization of B-cells in lymphoid tissues. This protein plays a positive regulation through interaction with Src family tyrosine kinases and also acts as an inhibitory receptor by recruiting cytoplasmic phosphatases. Recombinant human CD22 protein, fused to hIgG-His-tag at C-

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terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

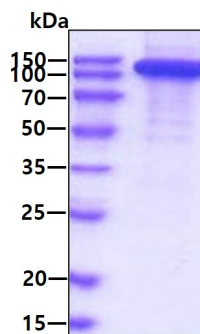
DSSKWFVEHP ETLYAWEGAC VWIPCTYRAL DGDLESFILF HNPEYNKNTS KFDGTRLYES TKDGKVPSEQ KRVQFLGDKN
KNCTLSIHPV HLNDGSQLGL RMESKTEKWM ERIHLNVSER PFPPHIQLPP EIQUESQEVTL TCLLNFSCYG YPIQLQWLE
GVPMRQAAVT STSLTIKSVF TRSELKFSPO WSHHGKIVTC QLQDADGKFL SNTDVLQNVK HTPKLEIKVT PSDAIVREGD
SVTMTCEVSS SNPEYTTVSW LKDGTSLKKQ NTFTLNLREV TKDQSGKYCC QVSNVDVGPGR SEEVFLQVQY APEPSTVQIL
HSPAVEGSQV EFLCMSLANP LPTNYTWYHN GKEMQGRTEE KVHIPKILPW HAGTYSCVAE NILGTGQRGP GAELDVQYPP
KKVTTVIQNP MPIREGDTVT LSCNYNSSNP SVTRYEWKPH GAWEEPSLGV LKIQNVGWDN TTIACAACNS WCSWASPVAL
NVQYAPRDVR VRKIKPLSEI HSGNSVSLQC DFSSSHPKEV QFFWEKNGRL LGKESQLNFD SISPEDAGSY SCWVNSIGQ
TASKAWTLEV LYAPRRLRVS MSPGDQVMG KATLTCESD ANPPVSHYTW FDWNNQSLPY HSQKLRLEPV
KVQHSGAYWC QGTVSVGKGR SPLSTLTVYY SPETIGRR<LE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT
PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI
SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPP VLDSGDGFFL YSKLTVDKSR
WQQGNVFSCS VMHEALHNNHY TQKSLSLSPG KHHHHHH>

General References

Yu SF., et al, (2015) Clin Cancer Res. 21:3298-3306.
Lumb S., et al, (2016) J Cell Commun Signal. 10:143-151.

DATA

SDS-PAGE



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