

sCD22, Human Recombinant

CATALOG #:	7123-10	10 µg
	7123-50	50 µg
ALTERNATE NAMES:	Leu-14, B-Lymphocyte cell adhesion molecule, BL-CAM, Siglec-2	
SOURCE:	CHO cells	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	~75 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 1X PBS, pH 7.2.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

CD22 is a B-lineage restricted 135 kDa glycoprotein whose cell surface expression is limited to resting and activated B lymphocytes. The physiological role of CD22 is still unknown. Targeted disruption of CD22 in mice results in a reduced level of surface IgM on peripheral B cells suggesting a role for CD22 in limiting antigen receptor signaling. CD22 is a member of the Ig gene superfamily that uniquely binds a sialic acid-dependent ligand. Recombinant human CD22 is a soluble 75.0 kDa protein which corresponds to the extracellular domain of CD22.

BIOLOGICAL ACTIVITY:

Determined by its ability to inhibit the proliferation of Raji cells. The expected ED₅₀ for this effect is 10-17 µg/ml.

AMINO ACID SEQUENCE:

SKWVFEHPET LYAWEGACVW IPCTYRALDG DLESFILFHN PEYNKNTSKF
DGTRLYESTK DGKVPSEQKR VQFLGDKNKN CTLSIHPVHL NDSGQLGLRM
ESKTEKWMER IHLNVSERPF PPHIQLPPEI QESQEVTLTC LLNFSCYGYG
IQLQWLLEGV PMRQAAVTST SLTIKSVFTR SELKFSPQWS HHGKIVTCQL
QDADGKFLSN DTVQLNVKHT PKLEIKVTPS DAIVREGDSV TMTCEVSSSN
PEYTTVSWLK DGTSLLKQNT FTLNLREVTK DQSGKYCCQV SNDVGPGRSE
EVFLQVQYAP EPSTVQILHS PAVEGSQVEF LCMSLANPLP TNYTWYHNGK
EMQGRTEEKV HIPKILPWAH GTYSCVAENI LGTGQRGPGA ELDVQYPPKK
VTTVIQNPMP IREGDTVTLN CNYNNSNPSV TRYEWKPHGA WEEPSLGVLK
IQNVGWDNTT IACARCNSWC SWASPVALNV QYAPRDVRVR KIKPLSEIHS
GNSVSLQCDF SSSHPKEVQF FWEKNGRLLG KESQLNFDSI SPEDAGSYSC
WVNNSIGQTA SKAWTLEVLY APRRLRVSMS PGDQVMGKGS ATLTCESDAN
PPVSHYTWFD WNNQSLPHHS QKLRLEPVKV QHSGAYWCQG TNSVGKGRSP
LSTLTVYYSP ETIGRR

RELATED PRODUCTS:

- BLCAM Antibody (Cat. No. 3363-100)
- HCAM Antibody (Cat. No. 3393-100)
- CD-14, human recombinant (Cat. No. 4937-100)
- CD-14, mouse recombinant (Cat. No. 4938-100)
- CD-14 Antibody (Clone biG 10) (Cat. No. 3676-100)

FOR RESEARCH USE ONLY! Not to be used in humans.