



Recombinant Human CD22, soluble

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	S01-031S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	933
Synonyms:	CD22; SIGLEC2; SIGLEC-2

CD22 is a 135 kDa B-cell restricted sialoglycoprotein that binds to oligosaccharides containing 2-6-linked sialic acid residues. It is present in the cytoplasm of nearly all B-lineage cells and is also expressed on the surface of B-cells during advance stages of differentiation. Although the exact physiological function of CD22 is unclear, it appears to play a role in B-cell activation and to act as an adhesion molecule. The potential therapeutic use of CD22 and anti-CD22 may be useful in diagnostic and/or treatment of leukemia, lymphoma, non-Hodgkin's lymphoma and certain autoimmune conditions. (Cesano A. and Gayko U. Semin. Oncol. Apr. 2003 (2): 253-257). Recombinant human CD22 is a soluble 75.0 kDa (666 amino acid residues) protein which corresponds to the extracellular domain of CD22.

Sequence

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SKWVFEHPET LYAWEGACVW IPCTYRALDG DLESFILFHN
PEYNKNTSKF DGTRLYESTK DGKVPSEQKR VQFLGDKNKN
CTLSIHPVHL NDSGQLGLRM ESKTEKWMMER IHLNVSERPF
PPHIQLPPEI QESQEVTLTC LLNFSCYGY P IQLQWLLEGV
PMRQAAVTST SLTIKSVFTR SELKFSPQWS HHGKIVTCQL
QDADGKFLSN DTVQLNVKHT PKLEIKVTPS DAIVREGDSV
TMTCEVSSSN PEYTTVSWLK DGTSLKKQNT FTLNLREVTK
DQSGKYCCQV SNDVGPGRSE EVFLQVQYAP EPSTVQILHS
PAVEGSQVEF LCMSLANPLP TNYTWYHNGK EMQGRTEEKV
HIPKILPWAH GTYSCVAENI LGTGQRGPGA ELDVQYPPKK
VTTVIQNPMP IREGDTVTLS CNYNSSNPVS TRYEWKPHGA
WEEPSLGLVK IQNVGWDNTT IACARCNSWC SWASPVALNV
QYAPRDVVRV KIKPLSEIHS GNSVSLQCDF SSSHPKEVQF
FWEKNGRLLG KESQLNFDSI SPEDAGSYSC WVNNSIGQTA
SKAWTLEVLV APRRLRVSMS PGDQVMGKGS ATLTCESDAN
PPVSHYTWFD WNNQSLPHHS QKLRLEPVKV QHSGAYWCQG
TNSVKGGRSP LSTLTVYYS P ETIGRR
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Database References

Protein RefSeq:	NP_001762.2
Uniprot ID:	P20273
mRNA RefSeq:	NM_001771.3

Product Specifications

Expressed in	CHO cells
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	666
MW:	75 kDa

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



AVOID REPEATED FREEZE AND THAW CYCLES!