



Recombinant Human ICAM-1

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-341
Size:	50 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	3383
Synonyms:	ICAM1; BB2; CD54; P3.58

ICAMs are members of the Ig superfamily of calcium-independent transmembrane glycoproteins. ICAM-1 is a ligand for lymphocyte function-associated (LFA) and Mac-1 integrins and the major human rhinovirus receptor. The primary function of ICAM-1 is to provide adhesion between endothelial cells and leukocytes after stress or injury. The human ICAM-1 gene codes for a 505 amino acid transmembrane glycoprotein containing a 29 amino acid cytoplasmic domain, a 23 amino acid transmembrane domain, and a 453 amino acid extracellular domain. Recombinant human ICAM-1 is a 49.5 kDa glycoprotein comprising the extracellular domain (453 amino acid residues) of ICAM-1. Monomeric glycosylated ICAM-1 migrates at an apparent molecular weight of approximately 72.0-80.0 kDa by SDS-PAGE analysis under reducing conditions.

Sequence

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QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK
ELLLPGNNRK VYELSNVQED SQPMCYSNCP DGQSTAKTFL
TVYWTPERVE LAPLPSWQPV GKNLTLRCQV EGGAPRANLT
VLLLRGEKEL KREPAVGEPV EVTTTLVRRR DHHGANFSCR
TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL
EVDLTQGTVVC SLDGLFPVSE AQVHLALGDQ RLNPTVTYGN
DSFSAKASVS VTADEDEGTQR LTCAVILGNQ SQETLQTVTI
YSFPAPNVIL TKPEVSEGT E VTKCEAHPR AKVTLNGVPA
QPLGPRAQLL LKATPEDNGR SFSCSATLEV AGQLIHKNT
RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP
ELKCLKDGT F PLPIGESVTV TRDLEGT YLC RARSTQGEVT
RKVTNVNLS P RYE

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Database References

Protein RefSeq:	NP_000192.2
Uniprot ID:	P05362
mRNA RefSeq:	NM_000201

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):	453
MW:	49.5 kDa

Biological Activity: ICAM-1 supported the adhesion of more than 50% PMA-stimulated HSB2 cells to plates coated at 25µg/ml ICAM-1 concentration.



AVOID REPEATED FREEZE AND THAW CYCLES!