



# Recombinant Human ICAM-1

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-341S</b>
<b>Size:</b>	10 µg
<b>Lot. No.:</b>	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	3383
<b>Synonyms:</b>	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
VLLLRGKEL KREPAVGEPV EVTTTLVRR DHHGANSFSCR
TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL
EVDTQGTVVC 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
RKVTNNVLS P RYE

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## Database References

<b>Protein RefSeq:</b>	NP_000192.2
<b>Uniprot ID:</b>	P05362
<b>mRNA RefSeq:</b>	NM_000201

## Product Specifications

<b>Expressed in</b>	CHO cells
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	453
<b>MW:</b>	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!**