

## ICAM-1/CD54 Protein, Human (453a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P72621
<b>Synonyms:</b>	Intercellular Adhesion Molecule 1; ICAM-1; Major Group Rhinovirus Receptor; CD54; ICAM1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P05362 (Q28-E480)
<b>Gene ID:</b>	3383
<b>Molecular Weight:</b>	Approximately 88 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           Q T S V S P S K V I    L P R G G S V L V T    C S T S C D Q P K L    L G I E T P L P K K            E L L L P G N N R K    V Y E L S N V Q E D    S Q P M C Y S N C P    D G Q S T A K T F L            T V Y W T P E R V E    L A P L P S W Q P V    G K N L T L R C Q V    E G G A P R A N L T            V V L L R G E K E L    K R E P A V G E P A    E V T T T V L V R R    D H H G A N F S C R            T E L D L R P Q G L    E L F E N T S A P Y    Q L Q T F V L P A T    P P Q L V S P R V L            E V D T Q G T V V C    S L D G L F P V S E    A Q V H L A L G D Q    R L N P T V T Y G N            D S F S A K A S V S    V T A E D E G T Q R    L T C A V I L G N Q    S Q E T L Q T V T I            Y S F P A P N V I L    T K P E V S E G T E    V T V K C E A H P R    A K V T L N G V P A            Q P L G P R A Q L L    L K A T P E D N G R    S F S C S A T L E V    A G Q L I H K N Q T            R E L R V L Y G P R    L D E R D C P G N W    T W P E N S Q Q T P    M C Q A W G N P L P            E L K C L K D G T F    P L P I G E S V T V    T R D L E G T Y L C    R A R S T Q G E V T            R K V T V N V L S P    R Y E         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

ICAM-1/CD54 protein emerges as a crucial player in cellular interactions, functioning as a ligand for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). Particularly notable is its role during leukocyte trans-endothelial migration, where engagement with ICAM-1 promotes the assembly of endothelial apical cups through the activation of ARHGEF26/SGEF and RHOG. In the context of microbial infection, ICAM-1 also acts as a receptor for major receptor group rhinovirus A-B capsid proteins, highlighting its versatile involvement in both immune responses and pathogen recognition. This dual functionality underscores the significance of ICAM-1 in mediating diverse cellular processes critical for immune regulation and host defense.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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