

ICAM-1/CD54 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P73910
Synonyms:	Intercellular Adhesion Molecule 1; ICAM-1; CD54
Species:	Human
Source:	HEK293
Accession:	P05362/NP_000192.2 (Q28-E480)
Gene ID:	3383
Molecular Weight:	Approximately 95-135 kDa

PROPERTIES

AA Sequence	<pre> 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 </pre>
Biological Activity	Measured by its ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 5×10^4 cells/well are added to ICAM-1 coated plates (12.5 $\mu\text{g}/\text{mL}$, 100 $\mu\text{L}/\text{well}$) in the presence of 20 ng/mL PMA, approximately 79.7% will adhere after 1 hour at 37°C.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

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.

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

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