

ICAM-3/CD50 Protein, Human (HEK293, His)

Cat. No.:	HY-P72921
Synonyms:	Intercellular adhesion molecule 3; ICAM-3; CDw50; ICAM-R; CD50
Species:	Human
Source:	HEK293
Accession:	P32942 (Q30-H485)
Gene ID:	3385
Molecular Weight:	100-120 kDa

PROPERTIES

AA Sequence	<pre> Q E F L L R V E P Q N P V L S A G G S L F V N C S T D C P S S E K I A L E T S L S K E L V A S G M G W A A F N L S N V T G N S R I L C S V Y C N G S Q I T G S S N I T V Y R L P E R V E L A P L P P W Q P V G Q N F T L R C Q V E D G S P R T S L T V V L L R W E E E L S R Q P A V E E P A E V T A T V L A S R D D H G A P F S C R T E L D M Q P Q G L G L F V N T S A P R Q L R T F V L P V T P P R L V A P R F L E V E T S W P V D C T L D G L F P A S E A Q V Y L A L G D Q M L N A T V M N H G D T L T A T A T A T A R A D Q E G A R E I V C N V T L G G E R R E A R E N L T V F S F L G P I V N L S E P T A H E G S T V T V S C M A G A R V Q V T L D G V P A A A P G Q P A Q L Q L N A T E S D D G R S F F C S A T L E V D G E F L H R N S S V Q L R V L Y G P K I D R A T C P Q H L K W K D K T R H V L Q C Q A R G N P Y P E L R C L K E G S S R E V P V G I P F F V N V T H N G T Y Q C Q A S S S R G K Y T L V V V M D I E A G S S H </pre>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated jurkatcells. When 5×10^4 cells/well are added to rhICAM-3/Fc Chimera coated plates (12.5 $\mu\text{g}/\text{mL}$ with 100 $\mu\text{L}/\text{well}$) in the presence of 20 ng/mL PMA, approximately 64.39% will adhere after 1 hour at 37°C.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.5 or 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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-3/CD50 Protein serves as a ligand for the leukocyte adhesion proteins LFA-1 (integrin alpha-L/beta-2) and integrin alpha-D/beta-2, implicating its involvement in cellular adhesion processes. When associated with integrin alpha-L/beta-2, ICAM-3 plays a contributory role in apoptotic neutrophil phagocytosis by macrophages, suggesting a potential role in the regulation of immune responses and clearance of apoptotic cells. Additionally, ICAM-3 interacts with moesin/MSN, indicating its participation in protein-protein interactions that may influence cellular signaling or structural organization. The multifaceted interactions of ICAM-3 underscore its significance in the intricate network of cellular adhesion and immune-related processes.

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

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