ICAM-2/CD102 Protein, Human (199a.a, HEK293, His)

Cat. No.:	HY-P7775
Synonyms:	rHuCD102, His; Intercellular Adhesion Molecule 2; ICAM-2; CD102; ICAM2
Species:	Human
Source:	HEK293
Accession:	P13598 (K25-Q223)
Gene ID:	3384
Molecular Weight:	Approximately 43 kDa

PROPERTIES

AA Sequence	K V F E V H V R P K K L A V E P K G S L E V N C S T T C N Q P E V G G L E T S L D K I L L D E Q A Q W K H Y L V S N I S H D T V L Q C H F T C S G K Q E S M N S N V S V Y Q P P R Q V I L T L Q P T L V A V G K S F T I E C R V P T V E P L D S L T L F L F R G N E T L H Y E T F G K A A P A P Q E A T A T F N S T A D R E D G H R N F S C L A V L D L M S R G G N I F H K H S A P K M L E I Y E P V S D S Q H H H H H H
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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-2 (CD102), like the structurally related ICAM-1 (CD54) and ICAM-3 (CD50) proteins is a known ligand for the ß2 family of leukocyte integrins. These include CD11a/CD18 (LFA-1), CD11b/CD18 (Mac-1), and the dendritic cell-specific, ICAM-grabbing non-integrin (DC-SIGN) protein. ICAM-2 harbours two immunoglobulin domains which are homologues to the first and second immunoglobulin domain of ICAM-1 without any known splice variants. ICAM-2 is uniformly present on all subsets of B lymphocyte lineage cells in bone marrow cell suspensions. High level constitutive expression on vascular endothial cells and less responsiveness than ICAM-1 to inflammatory stimuli are also characteristics of ICAM-2. Recombinant ICAM-2 can co-

stimulate T cells in vitro. Although ICAM-2 mediates neutrophil transmigration, ICAM-2 appears capable of mediating CD31/PECAM-1-independent leukocyte transmigration. ICAM-2 may also regulate angiogenesis via several mechanisms including survival, cell migration, and Rac activation[1][2].

REFERENCES

[1]. Yoshio Yamashita, et al. Participation of intercellular adhesion molecule-2 (CD102) in B lymphopoiesis. Immunol Lett. 2008 Oct 30;120(1-2):79-86.

[2]. Ruth Lyck, et al. The physiological roles of ICAM-1 and ICAM-2 in neutrophil migration into tissues. Curr Opin Hematol. 2015 Jan;22(1):53-9.

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