

CXADR Protein, Human (HEK293, His)

Cat. No.:	HY-P70049
Synonyms:	rHuCoxsackievirus and adenovirus receptor/CXADR, His ; Coxsackievirus and Adenovirus Receptor; CAR; hCAR; CVB3-Binding Protein; Coxsackievirus B-Adenovirus Receptor; HCVADR; CXADR; CAR
Species:	Human
Source:	HEK293
Accession:	P78310/NP_001329.1 (L20-G237)
Gene ID:	1525
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	<pre> L S I T T P E E M I E K A K G E T A Y L P C K F T L S P E D Q G P L D I E W L I S P A D N Q K V D Q V I I L Y S G D K I Y D D Y Y P D L K G R V H F T S N D L K S G D A S I N V T N L Q L S D I G T Y Q C K V K K A P G V A N K K I H L V V L V K P S G A R C Y V D G S E E I G S D F K I K C E P K E G S L P L Q Y E W Q K L S D S Q K M P T S W L A E M T S S V I S V K N A S S E Y S G T Y S C T V R N R V G S D Q C L L R L N V V P P S N K A G </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2. (Due to the optimization of production process, the components of different batches may vary slightly.)
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	<p>CXADR protein plays a pivotal role as a component of the epithelial apical junction complex, essential for maintaining tight junction integrity by functioning as a homophilic cell adhesion molecule. Beyond its structural role, CXADR is actively involved in facilitating the transepithelial migration of leukocytes through adhesive interactions with JAML, a transmembrane protein on the plasma membrane of leukocytes. This interaction not only supports the physical process of leukocyte migration but also serves as a key mediator for the activation of gamma-delta T-cells, a specialized T-cell subpopulation residing in epithelial tissues crucial for tissue homeostasis and repair. Upon binding to CXADR, JAML initiates</p>
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downstream cell signaling events in gamma-delta T-cells, involving PI3-kinase and MAP kinases, leading to T-cell proliferation and the production of cytokines and growth factors. This cascade of events contributes to the stimulation of epithelial tissue repair. Notably, in the context of microbial infection, CXADR acts as a receptor for adenovirus type C.

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

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