

Product Data Sheet

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

AA Sequence LSITTPEEMI EKAKGETAYL PCKFTLSPED QGPLDIEN SPADNQKVDQ VIILYSGDKI YDDYYPDLKG RVHFTSNI SGDASINVTN LQLSDIGTYQ CKVKKAPGVA NKKIHLVY KPSGARCYVD GSEEIGSDFK IKCEPKEGSL PLQYEWQL DSQKMPTSWL AEMTSSVISV KNASSEYSGT YSCTVRNI SDQCLLRLNV VPPSNKAG 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 optimizatio process, the components of different batches may vary slightly.) 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 ₂ 0. 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 c recommended to freeze aliquots at -20°C or -80°C for extended storage. Shipping Room temperature in continental US; may vary elsewhere.	DDODEDTIES						
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DESCRIPTION

Background 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

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.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA