Recombinant Human CXADR/CAR Protein (His & Fc Tag)

Catalog No. PKSH031425

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Synonyms	Coxsackievirus and Adenovirus Receptor;CAR;hCAR;CVB3-Binding Protein;Coxsackievirus B-Adenovirus Receptor;HCVADR;CXADR;CAR
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Gly 237
Accession	NP_001329.1
Calculated Molecular Weight	52.0 kDa
Observed molecular weight	60-65 kDa
Tag	C-His-Fc
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of mouse neutrophils. When 5 x 10^4 cells/well are added to CXADR coated plates (4 μ g/ml and 100 μ l/well), approximately 20%-40% will adhere specifically after 60 minutes at 37°C.
Properties	
Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	

KDa MK R 116 66.2 45.0 35.0 25.0 18.4 14.4

> 92 % as determined by reducing SDS-PAGE.

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Background

CXADR (coxsackie virus and adenovirus receptor), also known as CAR, is a type I transmembrane glycoprotein belonging to the CTX family of the Ig superfamily, and is essential for normal cardiac development in the mouse. Proposed as a homophilic cell adhesion molecule, CXADR is a component of the epithelial apical junction complex that is essential for the tight junction integrity, and probably involved in transepithelial migration of polymorphonuclear leukocytes (PMN). Mature mouse CXADR structrually comprises a 218 aa extracellular domain (ECD) with a V-type (D1) and a C2-type (D2) Ig-like domain, a 21 aa transmembrane segment and a 107 aa intracellular domain, among which,D1 is thought to be responsible for homodimer formation in trans within tight junctions. The ECD of mouse CXADR shares 97%, 90% sequence identity with the corresponding regions of rat, human CXADR.