# Recombinant Mouse CXADR/CAR Protein (His &Fc Tag)

**Catalog Number: PKSM040911**

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

## Description

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|---|---|
| **Species** | Mouse |
| **Source** | HEK293 Cells-derived Mouse CXADR/CAR protein Met 1-Gly 237, with an C-terminal His & Fc |
| **Calculated MW** | 52.0 kDa |
| **Observed MW** | 60-65 kDa |
| **Accession** | NP_001020363.1 |
| **Bio-activity** | 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 μg/ml and 100 μl/well), approximately 20%-40% will adhere specifically after 60 minutes at 37℃. |

## Properties

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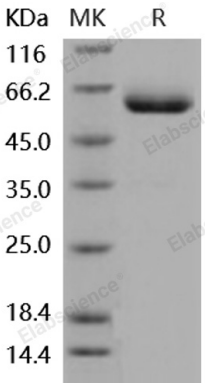
|---|---|
| **Purity** | > 92 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 92 % as determined by reducing SDS-PAGE.

## 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.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