## **Recombinant Mouse CXADR/CAR Protein**

Catalog Number: PKSM040909



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

# **Description**

**Synonyms** 2610206D03Rik;AU016810;AW553441;CAR;MCAR;MCVADR

Species Mouse

Expression Host HEK293 Cells
Sequence Met1-Gly237
Accession NP\_001020363.1

Calculated Molecular Weight 25 kDa
Observed molecular weight 30 kDa
Tag No tag

### **Properties**

Purity > 95 % as determined by reducing SDS-PAGE.
 Endotoxin < 1.0 EU per μg as determined by the LAL method.</li>

**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

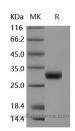
of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4

**Reconstitution** Please refer to the printed manual for detailed information.

### Data



# **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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