Data Sheet (Cat.No.TMPJ-00236)

CXADR/CAR Protein, Mouse, Recombinant (Avi & His), Biotinylated

General Information

Synonyms:	Cxadr;Coxsackievirus and adenovirus receptor homolog;CVB3 BP;CAR
Protein Construction:	Leu20-Gly237
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P97792
Molecular Weight:	30-40 KDa (reducing condition)
AA Sequence:	Leu20-Gly237

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Coxsackievirus and adenovirus receptor homolog（CAR）， also known as CXADR, is a type I transmembrane glycoprotein that belongs to the CTX family of the Ig superfamily. CXADR has monomer subunit that interacts with LNX, BAIAP1, DLG4, PRKCABP, TJP1 and CTNNB1. It also interacts with MPDZ and JAML. CXADR composed of of the epithelial apical junction complex that may function as a homophilic cell adhesion molecule and is essential for tight junction integrity. CXADR also involved in transepithelial migration of leukocytes through adhesive

interactions with JAML a transmembrane protein of the plasma membrane of leukocytes. The interaction between both receptors also mediates the activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved in tissue homeostasis and repair. Upon epithelial CXADR-binding, JAML induces downstream cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in proliferation and production of cytokines and growth factors by T-cells that in turn stimulate epithelial tissues repair.

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