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Recombinant Human HCVADR/CXADR Protein

Catalog No.: RP00970 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1525	P78310

Tags
C-His

Synonyms
CXADR;CAR;CAR4/6;HCAR

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
24.89 kDa	35-40 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

CXADR (coxsackie and adenovirus receptor), also known as CAR, is a 46 kDa type I transmembrane glycoprotein that belongs to the CTX family of the Ig superfamily. CXADR has received attention as a receptor that facilitates gene transfer mediated by most adenoviruses. It is also an adhesion molecule within junctional complexes, notably between epithelial cells lining body cavities and within myocardial intercalated discs .It is expressed throughout brain neuroepithelium during development, but mainly in ependymal cells in the adult . The 365 amino acid (aa) human CXADR contains a 19 aa signal sequence, 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. D1 is thought to be responsible for homodimer formation in trans within tight junctions. The fiber knob of adenoviruses attaches at a similar site, and evidence suggests that disruption of tight junctions facilitates virus binding. The C-terminus interacts with several cytoplasmic junctional proteins, microtubules and the actin cytoskeleton.

Basic Information

Description
Recombinant Human HCVADR/CXADR Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu20 - Gly237) of human CXADR/CAR (Accession #NP_001329.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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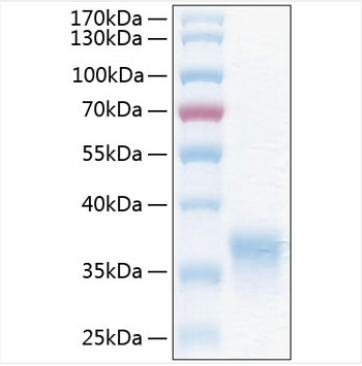
Validation Data



Recombinant Human HCVADR/CXADR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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