

# Cannabinoid receptor 1 (CNR1) Recombinant Protein | CNR1 recombinant protein

Recombinant Human Cannabinoid receptor 1 (CNR1)-VLPs (Active)

|                               |                               |
|-------------------------------|-------------------------------|
| CATALOG #<br><b>AAA279268</b> | HOST<br><b>Mammalian cell</b> |
|-------------------------------|-------------------------------|

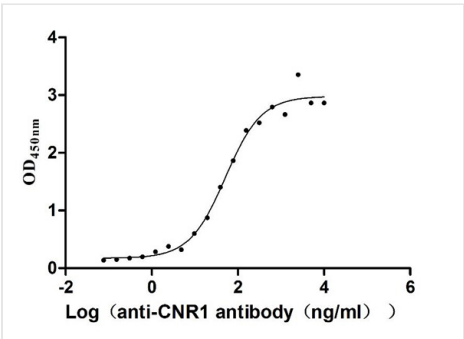
## PRODUCT SYNONYMS

Cannabinoid receptor 1 (CNR1); Recombinant Human Cannabinoid receptor 1 (CNR1)-VLPs (Active); CB-R; CB1; CANN6; CNR1 recombinant protein

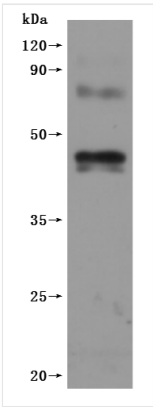
## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification     | The purity information is not available for VLPs proteins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized powder<br>Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Positions      | 1-472aa; Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence                | MKSILDGLAD TTFRTITDDL LYVGSNDIQY EDIKGDMASK LGYFPQKFPL TSFRGSPFQE KMTAGDNPQL<br>VPADQVNITE FYNKSLSSFK ENEENIQCGE NFMDIECFMV LNPSQQLAIA VLSLTGTFE VLENLLVLCV<br>ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVFL FKLGGVTASF TASVGSFLT<br>AIDRYISHR PLAYKRIVTR PKAVVAFCLM WTIAIVIAVL PLLGWNCEKL QSVCSDFPH IDETYLMFWI<br>GVTSVLLFI VYAYMYILWK AHSHAVRMIQ RGTQKSIIIH TSEDGKVQVT RPDQARMDIR LAKTLVLILV<br>VLIICWGPLL AIMVYDVFGK MNKLIKTVFA FCSMLCLLNS TVNPIIALR SKDLRHAFRS MFPSCEGTAQ<br>PLDNSMGDSD CLHKHANNA SVHRAAESC KSTVKIAKVT MSVSTDTSAE AL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species                 | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tag                     | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Research Area           | Cardiovascular Less than 1.0 EU/ug as determined by LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Transmembrane Domain    | 7TM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Biological_Activity     | Measured by its binding ability in a functional ELISA. Immobilized Human CNR1 at 10 ug/mL can bind Anti-CNR1 recombinant antibody, the EC50 is 41.72-63.54 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C.</p> <p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.</p> <p>The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).</p> |

IMAGES



**Bioactivity**  
Activity Measured by its binding ability in a functional ELISA. Immobilized Human CNR1 at 10 ug/ml can bind Anti-CNR1 recombinant antibody, the EC50 is 41.72-63.54 ng/mL.



**Application Data**  
is detected by Mouse anti-6\*His monoclonal antibody.

ADDITIONAL INFORMATION

|                                                        |                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------|
| Product Categories/Family for CNR1 recombinant protein | MP-VLP Transmembrane Protein & Active Protein & In Stock Protein |
|--------------------------------------------------------|------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 237681067                                                                      |
| NCBI GeneID                      | 1268                                                                           |
| NCBI Accession #                 | NP_001153698.1                                                                 |
| NCBI GenBank Nucleotide #        | NM_001160226.1                                                                 |
| UniProt Accession #              | P21554; Q13949; Q495Z0; Q4PLI4; Q4VBM6; Q5JVL5; Q5UB37; Q9UNN0; B2R9T4; E1P512 |
| Molecular Weight                 | 52,858 Da                                                                      |
| NCBI Official Full Name          | cannabinoid receptor 1 isoform a                                               |
| NCBI Official Synonym Full Names | cannabinoid receptor 1 (brain)                                                 |
| NCBI Official Symbol             | CNR1                                                                           |
| NCBI Official Synonym Symbols    | CB1; CNR; CB-R; CB1A; CB1R; CANN6; CB1K5                                       |
| NCBI Protein Information         | cannabinoid receptor 1; central cannabinoid receptor                           |
| UniProt Protein Name             | Cannabinoid receptor 1                                                         |
| UniProt Gene Name                | CNR1                                                                           |
| UniProt Synonym Gene Names       | CNR; CB-R; CB1                                                                 |
| UniProt Entry Name               | CNR1_HUMAN                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cnr1-recombinant-protein-mammalian-cell/279268>