



## Synonym

CNR1,cannabinoid receptor 1,CANN6, CB-R, CB1, CB1A, CB1K5, CB1R, CNR

## Source

Human CNR1 Protein, Flag,His Tag(CN1-H55D3) is expressed from Baculovirus-Insect cells. It contains AA Gly 99 - Val 306 & Pro 332 - Ser 414 (Accession # [P21554-1](#)).

Predicted N-terminus: Asp

## Molecular Characterization



This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 58.6 kDa. The protein migrates as 43-45 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of detergent.*

*Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove detergent.*

*Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.*

*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.*

Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 150 mM NaCl, Buffer B, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

## Storage

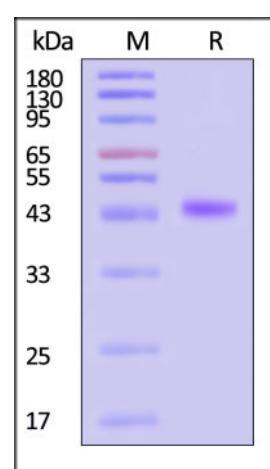
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

\*The detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## SDS-PAGE



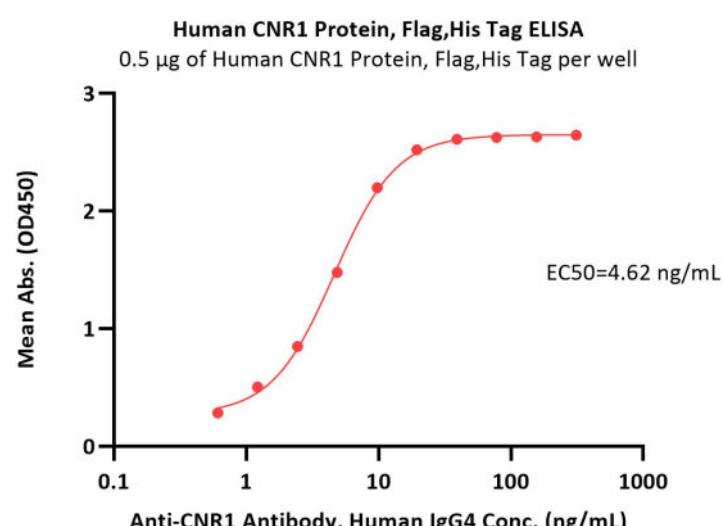
Human CNR1 Protein, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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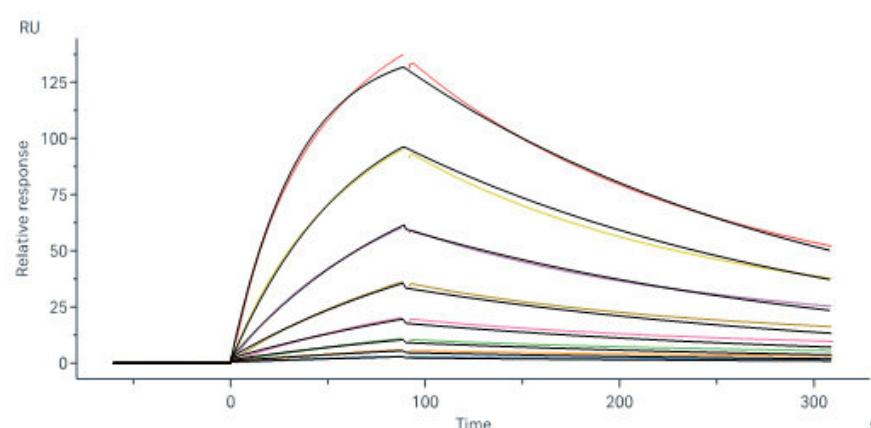


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Immobilized Human CNR1 Protein, Flag,His Tag (Cat. No. CN1-H55D3) at 5 µg/mL (100 µL/well) on Nickel Coated plates (Cat. No. SP-19) can bind Anti-CNR1 Antibody, Human IgG4 with a linear range of 0.6-10 ng/mL (QC tested).

### Bioactivity-SPR



Anti-CNR1 Antibody, Human IgG4 captured on Protein A Chip can bind Human CNR1 Protein, Flag,His Tag (Cat. No. CN1-H55D3) with an affinity constant of 42.8 nM as determined in a SPR assay (in presence of LMNG and CHS) (Biacore 8K) (Routinely tested).

### Background

This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit adenylyl cyclase activity in a dose-dependent, stereoselective and pertussis toxin-sensitive manner. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two different protein isoforms have been described for this gene.

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