

Human CNR1 Protein, Flag,His Tag (Detergent)

Catalog # CN1-H55D3



BIOSYSTEMS
Acro
Surprise Inside!

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 flag tag at the N-terminus and 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 µg by the LAL 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 µm filtered solution in 50 mM HEPES, 150 mM NaCl, CHS, 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.

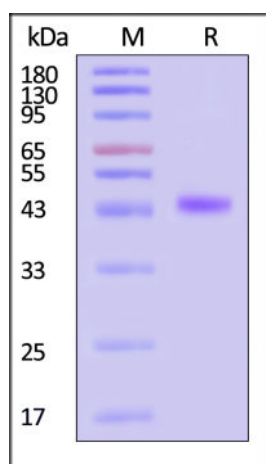
Storage

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.

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

Discounts, Gifts,
and more!



➤ www.acrobiosystems.com

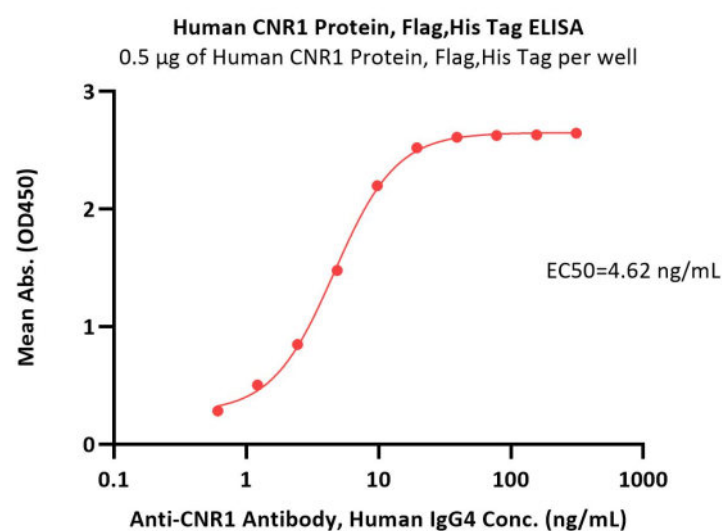
1/15/2025

Human CNR1 Protein, Flag,His Tag (Detergent)

Catalog # CN1-H55D3

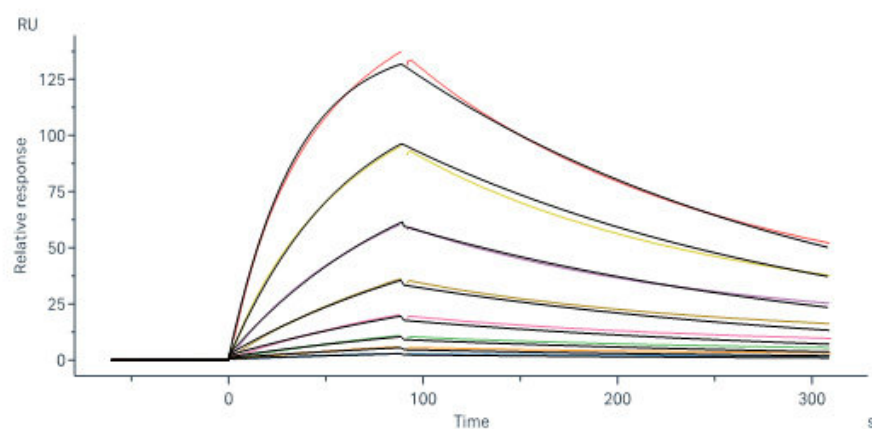


BIOSYSTEMS
Acro
Surprise Inside!



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 adenylate 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. [provided by RefSeq, May 2009]

Clinical and Translational Updates

Discounts, Gifts,
and more!



➤ www.acrobiosystems.com

1/15/2025