

Recombinant Human CNR2

Cat. No. CNR2-26236TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cannabinoid Receptor II with N terminal proprietary tag; Predicted MWt 65.67 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	360 amino acids
Description	The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors.
Molecular Weight	65.670kDa inclusive of tags
Tissue specificity	Preferentially expressed in cells of the immune system with higher expression in B cells and NK cells (at protein level). Expressed in skin in suprabasal layers and hair follicles (at protein level). Highly expressed in tonsil and to a lower extent in spl
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEECWVTEIANGSKDGLDSNPMKDYMILSGPQKTAVAVLC TLLGLLSALENVAVLYL ILSSHQLRRKPSYLFIGSLAG ADFLASVVFACSFVNFHFVHGVDSKAVFLLKIGSVTM TFT ASVGSLLLLTAIDRYLCLRYPPSYKALLTRGRALVTLGI MWVLSALVSYLPLMGW TCCPRPCSELFPLIPNDYLLSWLL FIAFLFSGIITYTYGHVLWKAHQHVASLSGHQDRQ VPGM ARMRLDVRLAKTLGLVLAVLLICWFPVLALMAHSLATTLS DQVKKAFAFCSM LCLINSMVNPVIYALRSGEIRSSAHH CLAHWKKCVRGLGSEAKEEAPRSSVTETED GKITPWPDS RDLDSLDC
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	CNR2 cannabinoid receptor 2 (macrophage) [Homo sapiens]
Official Symbol	CNR2
Synonyms	CNR2; cannabinoid receptor 2 (macrophage); cannabinoid receptor 2; CB2;
Gene ID	1269
mRNA Refseq	NM_001841
Protein Refseq	NP_001832

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MIM	605051
Uniprot ID	P34972
Chromosome Location	1p
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem;
Function	cannabinoid receptor activity; receptor activity; signal transducer activity;

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