

# Product Information

## **MemDX™ Membrane Protein Human CNR2 (Cannabinoid receptor 2) Expressed *in vitro* *E.coli* expression system, Full Length**

Cat. No.: **MPX4075K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human CNR2 membrane protein expressed *in vitro E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

CNR2

#### Protein Length

Full Length

#### Protein Class

GPCR

#### Molecular Weight

42.5 kDa

#### TMD

7

#### Sequence

MEECWVTEIANGSKDGLDSNPMKDYMILSGPQKTAVAVLCTLLGLLSALENVAVLYLILSSHQLRRKPSYLFIGSLAGADFLASVVFA

### Product Description

#### Expression Systems

*in vitro E.coli* expression system

#### Tag

10xHis tag at the N-terminus

#### Protein Format

Soluble

#### Form

Liquid or Lyophilized powder

**Purity**

>85% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

CNR2

**Full Name**

Cannabinoid receptor 2

**Introduction**

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.

**Alternative Names**

CNR2; CB2; CX5; CB-2; cannabinoid receptor 2 (macrophage); CNR2; Cannabinoid receptor 2; Cannabinoid receptor 2

**Gene ID**

[1269](#)

**UniProt ID**

[P34972](#)