

# Product Information

## **MemDX™ Membrane Protein Human ADRA2C (Adrenoceptor alpha 2C) Expressed *in vitro* *E.coli* expression system, Full Length**

Cat. No.: **MPX3591K**

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

This product is a Human ADRA2C 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**

ADRA2C

#### **Protein Length**

Full Length

#### **Protein Class**

GPCR

#### **TMD**

7

#### **Sequence**

MASPALAAALAVAAAAGPNASGAGERGSGGVANASGASWGPPRGQYSAGAVAGLAAVVGFLIVFTVVGNVLVVIAVLTSRALRAP

### 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

#### **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

ADRA2C

#### Full Name

Adrenoceptor alpha 2C

#### Introduction

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. The mouse studies revealed that both the alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons. The alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes the alpha2C subtype, which contains no introns in either its coding or untranslated sequences.

#### Alternative Names

ADRA2C; ADRA2L2; ADRARL2; ADRA2RL2; ALPHA2CAR; alpha-2C adrenergic receptor; adrenergic, alpha-2C-, receptor; alpha-2 adrenergic receptor subtype C4; alpha-2C adrenoceptor; alpha-2C adrenoreceptor; alpha-2CAR; alpha2-AR-C4; Adrenoceptor alpha 2C

#### Gene ID

[152](#)

#### UniProt ID

[P18825](#)