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Product Information

MemDX™ Membrane Protein Human OPRK1 (Opioid receptor kappa 1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX3503K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human OPRK1 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
OPRK1

Protein Length
Full Length

Protein Class
GPCR

TMD
7

Sequence
MDSPIQIFRGEPGPTCAPSACLPPNSSAWFPGWAEPDSNGSAGSEDAQLEPAHISPAIPVIITAVYSVVFVVGLVGNSLVMFVIIRYTI

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

OPRK1

Full Name

Opioid receptor kappa 1

Introduction

This gene encodes an opioid receptor, which is a member of the 7 transmembrane-spanning G protein-coupled receptor family. It functions as a receptor for endogenous ligands, as well as a receptor for various synthetic opioids. Ligand binding results in inhibition of adenylate cyclase activity and neurotransmitter release. This opioid receptor plays a role in the perception of pain and mediating the hypolocomotor, analgesic and aversive actions of synthetic opioids. Variations in this gene have also been associated with alcohol dependence and opiate addiction. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.

Alternative Names

OPRK1; KOP; KOR; KOR1; OPRK; KOR-1; K-OR-1; kappa-type opioid receptor; Opiate receptor, kappa-1; kappa opioid receptor; Opioid receptor kappa 1

Gene ID

4986

UniProt ID

P41145