SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human OPRK1 (Opioid receptor kappa 1) Full Length

Cat. No.: **MPC0317K**
This product is for research use only and is not intended for diagnostic use.

This product is a 42.6 kDa Human OPRK1 membrane protein expressed in Baculovirus/Insect 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

Molecular Weight
42.6 kDa

TMD
7

Sequence
MDSPIQIFRGEPGPTCAPSACLPPNSSAWFPGWAEPDSNGSAGSEDAQLE
PAHISPAIPVIITAVYSVVFVVGLVGNSLVMFVIIRYTKMKTATNIYIFN
LALADALVTTTMPFQSTVYLMNSWPFGDVLCKIVISIDYYNMFTSIFTLT
MMSVDRYIAVCHPVKALDFRTPLKAKIINICIWLLSSSVGISAIVLGGTK
VREDVDVIECSLQFPDDDYSWWDLFMKICVFIFAFVIPVLIIIVCYTLMI
LRLKSVRLLSGSREKDRNLRRITRLVLVVVAVFVVCWTPIHIFILVEALG
STSHSTAALSSYYFCIALGYTNSSLNPILYAFLDENFKRCFRDFCFPLKM
RMERQSTSRVRNTVQDPAYLRDIDGMNKPV

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag
Flag and 10xHis tag at N-terminal

Protein Format

Detergent or based on specific requirements

Form

Liquid

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

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

Gene ID

4986

UniProt ID

P41145

SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com