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Product Information

NativeExtract™ Human OPRK1 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX130**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human OPRK1 protein in native nanodisc form. The synthetic compound we developed can solubilize the OPRK1 protein from membrane while retaining the native structure.

Product Specifications

Host Species
Human

Target Protein
OPRK1

Protein Length
Full length

Molecular Weight
42.6kDa

Sequence
Accession # P41145

Product Description

Activity
Yes

Application
ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

Expression Systems
HEK293 expression system

Tag
Flag tag at the C-terminus

Protein Format
Native Nanodisc

Form
Liquid

Buffer

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

Storage

The product should be stored at -20°C to -80°C.

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

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