

Product Information

MemDX™ Membrane Protein Human OPRM1 (Opioid receptor mu 1) Full Length

Cat. No.: **MPC0318K**

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

This product is a 44.7 kDa Human OPRM1 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

OPRM1

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

44.7 kDa

TMD

7

Sequence

MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRT
DLGGRDSLCPPTGSPSMITAITIMALYSIVCVVGLFGNFLVMYVIVRYTK
MKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTILCKIVISIDY
YNMFTSIFTLCTMSVDRIYVCHPVKALDFRTPRNAKIINVCNWILSSAI
GLPVMFMATTKYRQGSIDCTLTFSHPTWYWENLLKICVFIFAFIMPVLII
TVCYGLMILRLKSVRMLSGSKEKDRNLRRITRMVLVVAVFIVCWTPIIH
YVIAKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
EFCIPTSSNIEQQNSTRIRQNTRDHPSTANTVDRTNHQLENLEAETAPLP

Product Description

Expression Systems

Baculovirus/Insect expression system

Tag

Based on specific requirements

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**

OPRM1

Full Name

Opioid receptor mu 1

Introduction

This gene encodes one of at least three opioid receptors in humans; the mu opioid receptor (MOR). The MOR is the principal target of endogenous opioid peptides and opioid analgesic agents such as beta-endorphin and enkephalins. The MOR also has an important role in dependence to other drugs of abuse, such as nicotine, cocaine, and alcohol via its modulation of the dopamine system. The NM_001008503.2:c.118A>G allele has been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence for it having a causal role is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. Though the canonical MOR belongs to the superfamily of 7-transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6 transmembrane domains.

Alternative Names

MOP; MOR; LMOR; MOR1; OPRM; M-OR-1; mu-type opioid receptor; mu opiate receptor; mu opioid receptor hMOR-1a; OPRM1; Opioid receptor mu 1

Gene ID

[4988](#)

UniProt ID

[P35372](#)