

Recombinant Human OPRM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OPRM1-3030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OPRM1 MS Standard C13 and N15-labeled recombinant protein (NP_000905) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	44.8 kDa
AA Sequence	MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGR DSLCPPTGSPSMITAITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALA

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DALATSTLPFQSVNYLMGTWPFGTILCKIVISIDYYNMFTSIFTLCTMSVDRYIAVCHP
VKALDFRTPRNAKIINVNCNWILSSAIGLPVMFMATTKYRQGSIDCTLTFSHPTWYWEN
LLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITRMVLVVAVFIV
CWTPIHIYVIAKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREFC
IPTSSNIEQQNSTIRIQNTRDHPSTANTVDRTNHQLENLEAETAPLPTRTRPLEQKLI
SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name OPRM1 opioid receptor mu 1 [Homo sapiens (human)]

Official Symbol OPRM1

Synonyms OPRM1; opioid receptor, mu 1; mu-type opioid receptor; MOR1; MOP; hMOP; M-OR-1; mu opiate receptor; mu opioid receptor hMOR-1a; mu opioid receptor splice variant hMOR-1S; mu opioid receptor splice variant hMOR-1Z; mu opioid receptor splice variant hMOR-1b; mu opioid receptor splice variant hMOR-1Y2; mu opioid receptor splice variant hMOR-1Y3; MOR; LMOR; OPRM; KIAA0403;

Gene ID 4988

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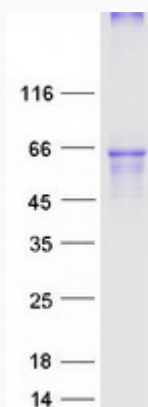
mRNA Refseq NM_000914

Protein Refseq NP_000905

MIM 600018

UniProt ID P35372

SDS-PAGE



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