

Recombinant Full Length Human OPRM1 Protein, C-Flag-tagged

Cat. No. OPRM1-64HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human OPRM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.6 kDa
AA Sequence	MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGR

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DSLCPPTGSPSMITA ITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALA
 DALATSTLPFQSVNYLMGTWPFGTI LCKIVISIDYYNMFTSIFTLCTMSVDRYIAVCHP
 VKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATT KYRQGSIDCTLTFSHPTWYWE
 NLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRI TRMVLVVAVFI
 VCWTPIHIYVIIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
 EFCIPTSSNIEQQNSTIRQNTRDHPSTANTVDRTNHQLENLEAETAPLPTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Full Length	Full L.

GENE INFORMATION

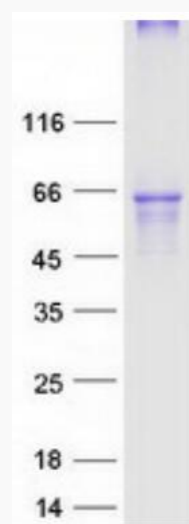
Gene Name	OPRM1 opioid receptor mu 1 [Homo sapiens (human)]
Official Symbol	OPRM1

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Synonyms	MOP; MOR; LMOR; MOR1; OPRM; M-OR-1
Gene ID	4988
mRNA Refseq	NM_000914.5
Protein Refseq	NP_000905.3
MIM	600018
UniProt ID	P35372



Coomassie blue staining of purified OPRM1 protein.