

Product datasheet for PH310383

Mu Opioid Receptor (OPRM1) (NM_000914) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	OPRM1 MS Standard C13 and N15-labeled recombinant protein (NP_000905)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210383
Predicted MW:	44.8 kDa
Protein Sequence:	>RC210383 protein sequence Red =Cloning site Green =Tags(s)

MDSSAAPTNASNCTDALAYSSCPAPSPGSWVNLSHLDGNLSDPCGNRTDLGGRDSLCPPTGSPSMITA
 ITIMALYSIVCVVGLFGNFLVMYVIVRYTKMTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTI
 LCKIVISIDYYNMFTSIFTLCTMSVDRIAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATT
 KYRQGSIDCTLTFSHPTWYENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRI
 TRMVLVVAVFIVCWTPIHIIYVIAKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
 EFCIPTSSNIEQQNSTIRQNTDRHPSTANTVDRTNHQLENLEAETAPLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000905</u>
RefSeq Size:	15279
RefSeq ORF:	1200
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM
Locus ID:	4988


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UniProt ID: P35372, G8XRH5

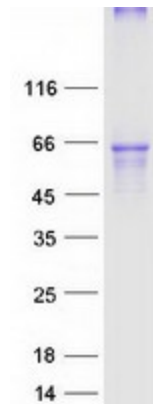
Cytogenetics: 6q25.2

Summary: 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. [provided by RefSeq, Oct 2013]

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Product images:



Coomassie blue staining of purified OPRM1 protein (Cat# [TP310383]). The protein was produced from HEK293T cells transfected with OPRM1 cDNA clone (Cat# [RC210383]) using MegaTran 2.0 (Cat# [TT210002]).