Nanodisc Human OPRM Protein

HDFP375

Product Information

Product SKU:	HDFP375	**Expression Host**:	HEK293	**Size**:	10µg
Target:	OPRM	**Tag**:	C-Flag Tag		

Additional Information

Conjugate:	Unconjugated	**Uniprot ID:**	P35372
Molecular Weight:	The human full length OPRM protein has a MW of 44.8 kDa		

Protein Information

Background:	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.
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM1
Protein Description:	Human OPRM full length protein-synthetic nanodisc
Formulation:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for
Protein Pathways:	Neuroactive ligand-receptor interaction.
Protein Families:	Druggable Genome, GPCR, Transmembrane.
Usage:	Research use only

Contact Details | Dublin, Ireland
Email: techsupport@assaygenie.com | **Web:** www.assaygenie.com

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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