PRODUCT INFORMATION

Target	OPRK
Synonyms	KOP; KOR; KOR1; OPRK1; KOR-1; K-OR-1
Description	Recombinant human OPRK Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P41145
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	OPRK(Met1-Ala57) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 32.0 kDa after removal of the signal peptide. The apparent molecular mass of OPRK-hFc is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
Background	This gene encodes an opioid receptor, which is a member of the 7 transmembrane-spanning G protein-coupled receptor family. It functions as a receptor for endogenous ligands, as well as a receptor for various synthetic opioids. Ligand binding results in inhibition of adenylate cyclase activity and neurotransmitter release. This opioid receptor plays a role in the perception of pain and mediating the hypolocomotor, analgesic and aversive actions of synthetic opioids. Variations in this gene have also been associated with alcohol dependence and opiate addiction. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2017]
Usage	Research use only
Conjugate	Unconjugated

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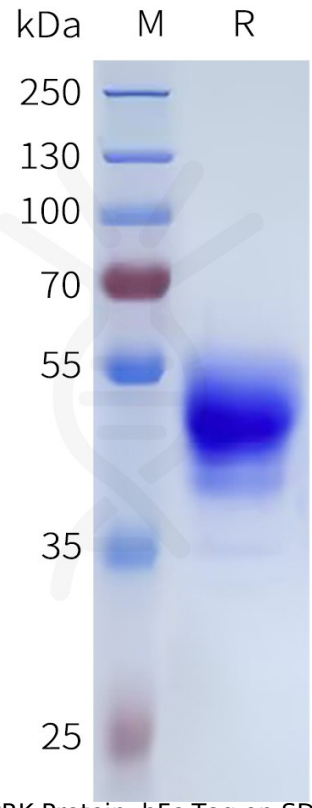


Figure 1. Human OPRK Protein, hFc Tag on SDS-PAGE under reducing condition.

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