

Recombinant Human OPN5 Protein, His-tagged

Cat. No. OPN5-2531H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OPN5 Protein (Met1-Thr181) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Thr181
Description	Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This opsin gene is expressed in the eye, brain, testes, and spinal cord. This gene belongs to the seven-exon subfamily of mammalian opsin genes that includes peropsin (RRH) and retinal G protein coupled receptor (RGR). Like these other seven-exon opsin genes, this family member may encode a protein with photoisomerase activity. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.2 kDa Accurate Molecular Mass: 24 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	OPN5 opsin 5 [Homo sapiens (human)]
Official Symbol	OPN5
Synonyms	OPN5; opsin 5; TMEM13, transmembrane protein 13; opsin-5; dJ402H5.1; neuropsin; transmembrane protein 13; G-protein coupled receptor 136; PGR12; GPR136; TMEM13;
Gene ID	221391
mRNA Refseq	NM_181744
Protein Refseq	NP_859528
MIM	609042

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UniProt ID

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