

Proteoliposomes

Full-Length

# OPN1SW (Human) Recombinant Protein

Catalog # H00000611-G01

Size 2 ug

## Specification

|                               |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human OPN1SW full-length ORF (AAI56720.1) recombinant protein without tag.<br>This product is belong to Proteoliposome (PL).                                                                                                                                                                                                                                                |
| Sequence                      | MRKMSEEEFYLFKNISSVGPWDGPQYHIAPVWAFYLQAAFMGTVFLIGFPLNAMVLVATLRYKKL<br>RQPLNYLVNVSFGGFLLCIFSVFPVFVASCNGYFVFGRHVCALEGFLGTVAGLVTGWSLAFLAFE<br>RYVICKPFGNFRFSSKHALTVLATWTIGIGVSIPPFVGWSRFIPEGLQCSCGPDWYTVGTKYRSE<br>SYTWFLFIFCFMPLSLICFSYTQLLRALKAVAAQQQESATTQKAEREVSRMVVVMVGSFCVCYVP<br>YAAFAMYMVNNRNHGLDLRLVTIPSFFFSKSACINPIYCFMNKQFQACIMKMVCGKAMTDESDTC<br>SSQKTEVSTVSSTQVGPN |
| Host                          | Wheat Germ (in vitro)                                                                                                                                                                                                                                                                                                                                                       |
| Theoretical MW (kDa)          | 38.28                                                                                                                                                                                                                                                                                                                                                                       |
| Interspecies Antigen Sequence | Mouse (86)                                                                                                                                                                                                                                                                                                                                                                  |
| Form                          | Liquid                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation Method            | <a href="#">in vitro wheat germ expression system with proprietary liposome technology</a>                                                                                                                                                                                                                                                                                  |
| Purification                  | None                                                                                                                                                                                                                                                                                                                                                                        |
| Recommend Usage               | Heating may cause protein aggregation. Please do not heat this product before electrophoresis.                                                                                                                                                                                                                                                                              |
| Storage Buffer                | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                                                                             |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                             |
| Note                          | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                      |

## Applications

- Antibody Production

## Gene Info — OPN1SW

**Entrez GeneID** [611](#)**GeneBank Accession#** [BC156719.1](#)**Protein Accession#** [AA156720.1](#)**Gene Name** OPN1SW**Gene Alias** BCP, BOP, CBT**Gene Description** opsin 1 (cone pigments), short-wave-sensitive**Omim ID** [190900](#)**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. [provided by RefSeq]

**Other Designations** blue cone photoreceptor pigment|blue-sensitive opsin

## Disease

- [Retinal Diseases](#)