Proteoliposomes | Full-Length

OPN1LW (Human) Recombinant Protein

Catalog # H00005956-G01 Size 2 ug

Specification

Product Description	Human OPN1LW full-length ORF (AAI56644.1) recombinant protein without tag. This product is belong to Proteoliposome (PL).
Sequence	MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPRWVYHLTSVWMIFVVT ASVFTNGLVLAATMKFKKLRHPLNWILVNLAVADLAETVIASTISIVNQVSGYFVLGHPMCVLEGYT VSLCGITGLWSLAIISWERWLVVCKPFGNVRFDAKLAIVGIAFSWIWSAVWTAPPIFGWSRYWPHG LKTSCGPDVFSGSSYPGVQSYMIVLMVTCCIIPLAIIMLCYLQVWLAIRAVAKQQKESESTQKAEKE VTRMVVVMIFAYCVCWGPYTFFACFAAANPGYAFHPLMAALPAYFAKSATIYNPVIYVFMNRQFRN CILQLFGKKVDDGSELSSASKTEVSSVSSVSPA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	40.04
Interspecies Antigen Sequence	Mouse (88); Rat (89)
Form	Liquid
Preparation Method	*in vitro* wheat germ expression system with proprietary liposome technology
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 — OPN1LW

Entrez GeneID	5956
GeneBank Accession#	BC156643.1
Protein Accession#	AAI56644.1
Gene Name	OPN1LW
Gene Alias	CBBM, CBP, RCP
Gene Description	opsin 1 (cone pigments), long-wave-sensitive
Omim ID	303700 303900
Gene Ontology	Hyperlink
Gene Summary	This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called red cone photopigment or long-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. This gene and the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of partial, protanopic colorblindness. [provided by RefSeq
Other Designations	OTTHUMP00000032193|red cone photoreceptor pigment|red-sensitive opsin

Disease

- Genetic Predisposition to Disease
- Retinal Diseases
- Sarcoidosis