



Recombinant Rat Melanopsin (Opn4)-VLPs

Product Code	CSB-MP851271RA
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8R456
Form	Lyophilized powder
Storage Buffer	Lyophilized from PBS, 6% Trehalose, pH 7.4.
Product Type	Recombinant Rat Melanopsin (Opn4)-VLPs
Immunogen Species	Rattus norvegicus (Rat)
Sequence	MNSPSES RVPSSLTQDPSFTASPALLQGIWNSTQNISVRVQLLSVSPPTTPGLQ AAAWVPFPTVDVPDHAHYTLGTVILLVGLTGMLGNLTVIYTF CRNRGLRTPAN MLIINLAVSDFLMSFTQAPVFFASSLYKKWLFGETGCKFYAFCGAVFGIVSMITL TAIAMDRYL VITRPLATIGMRSKRRTALVLLGVWLYALAWSLPPFFGWSAYVPE GLLTSCSWDYVTFTPLVRAYTMLLFCVFVFLPLLIIIFCYIFIFRAIRETGRACEGC GESPLRRRQWQRLQSEWKMAKVALIVILLFVLSWAPYSTVALVGFAGYSHILT PYMSSVPAVIAKASAIHNPIIYAITHPKYRAAIAQHLPCLGVLLGVSGQRSHPSLS YRSTHRSTLSSQSSDLSWISGQKRQESLGSESEVGWTD TETTAAWGAAQQA SGQSFCSHDLEDGEVKAPSSPQEQKSKTPKTKRHLP SLDRRM
Research Area	Neuroscience
Source	Mammalian cell
Target Names	Opn4
Expression Region	1-474aa
Notes	The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20°C/-80°C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).
Tag Info	C-terminal 10xHis-tagged If you have specified tag type, please tell us and we will check if it's possible to develop.
Protein Length	Full Length
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80°C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients,



storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.