Rhodopsin (rho) Ictalurus Punctatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rhodopsin (rho), Recombinant Protein
Full Product Name	Recombinant Ictalurus punctatus Rhodopsin (rho)
Product Gene Name	rho recombinant protein
Product Synonym Gene Name	rho
Product Synonym Names	Recombinant Rhodopsin (rho); Rhodopsin
Sequence	YEYPQYYLVN PAAYAALGAY MFLLILVGFP INFLTLYVTI EHKKLRTPLN YILLNLAVAN LFMVFGGFTT TMFTSIRGYF VLGHLGCNLE GFFATLSGEI ALWSLVVLAI ERWVVVCKPI SNFRFGENHA IMGLAFTWTM AMACAAPPLV GWSRYIPEGM QCSCGIDYYT RAEGFNNESF VVYMFTCHFM TPLTIVFFCY GRLLCAVKEA AAAQQESETT QRAEREVTRM VVIMVIAFLI CWCPYAGVAW FIFTHQGSEF GPVFMTIPAF FAKSSSIYNP MIYICLNKQF RHCMITTLCC GKKA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	34,407 Da
Sequence Positions	1-304
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O42268
Species	Ictalurus punctatus (Channel catfish)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rho recombinant protein	MBS1237723 is a recombinant protein targeting rho. Also known as Recombinant Ictalurus punctatus Rhodopsin (rho). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rho recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for rho. It may not necessarily be applicable to this product.

NCBI GI #	3024275
NCBI Accession #	O42268.1
UniProt Primary Accession #	O42268
NCBI Official Full Name	Rhodopsin

UniProt Protein Name	Rhodopsin
Protein Family	Protein rhomboid
UniProt Gene Name	rho
UniProt Entry Name	OPSD_ICTPU
UniProt Comments for rho	Function: Visual pigments such as rhodopsin and porphyropsin are light-absorbing molecules that mediate vision. Rhodopsin consists of an apoprotein, opsin, covalently linked to 11-cis-retinal. This receptor is coupled to the activation of phospholipase C. Porphyropsin consists of opsin covalently linked to 11-cis 3,4-didehydroretinal. Subcellular location: Membrane; Multi-pass membrane protein. Tissue specificity: Rod shaped photoreceptor cells which mediates vision in dim light. Post-translational modification: Phosphorylated on some or all of the serine and threonine residues present in the C-terminal region. Sequence similarities: Belongs to the G-protein coupled receptor 1 family. Opsin subfamily.
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