Otolin-1-A (otol1a) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Otolin-1-A (otol1a), Recombinant Protein
Full Product Name	Recombinant Danio rerio Otolin-1-A (otol1a)
Product Gene Name	otol1a recombinant protein
Sequence	SIDKTTQWPR MKPTKKPPPR DEGPSKLGSI STTVSPTAIG ITEEVTDAMM DAYTITSTGS TTFSSDTYSA DYHTEAMVPP GVGPGNYTLD YNECFFNFCE CCPPERGPPG PVGEKGLPGI PGGKGEMGPP GPPGQEGLTG APGTHGVKGE KGDTGASGLP GIPGVTGKQG EKGESGPKGD KGDTGFPGLK GDPGERGEPG WNGTKGGMGE PGKQGLTGPP GPDGIKGEKG DKGDCPFGEK GQKGSIGEPG PQGPKGDPGV PGTNGTDGLP GSKGPKGDPG PLSKQGEPGP PGPQGPPGQR GMPGMKGTRG LKGARGIRGF KGFKGEPAVQ KRSAFSVGLF PSRSFPPPGL PIRFDKIIYN EEAHWDPNAS KFNCTHGGVY VFSYYITVRN RPLRAALVVN GIRKLRTRDS LYGQDIDQAS NMAVLRLSSG DQVWLETLRD WNGVYSSSED DSTFSGFLLY ADATKD
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	50,792 Da
Sequence Positions	24-489, Full length protein
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 A5PN28
Species	Zebrafish
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for otol1a recombinant protein	MBS1254485 is a recombinant protein targeting otol1a. Also known as Recombinant Danio rerio Otolin-1-A (otol1a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of otol1a 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 otol1a. It may not necessarily be applicable to this product.

NCBI GI #	153792733
NCBI GeneID	553759
NCBI Accession #	NP_001093211.1
UniProt Primary Accession #	A5PN28
UniProt Secondary Accession #	Q60HI2

UniProt Related Accession #	A5PN28
GenBank Nucleotide #	NM_001099741.1
NCBI Official Full Name	otolin-1-A
NCBI Official Synonym Full Names	otolin 1a
NCBI Official Symbol	otol1a
NCBI Official Synonym Symbols	Gm414; otol1; si:dkey-119f1.2
UniProt Protein Name	Otolin-1-A
UniProt Synonym Protein Names	zOtolin1
Protein Family	Otolin
UniProt Gene Name	otol1a
UniProt Synonym Gene Names	otol1
NCBI Protein Information	otolin-1-A
UniProt Comments for otol1a	Involved in the correct arrangement of the otoliths onto the sensory epithelium of the inner ear and probably in stabilization of the otolith matrix.
Research Articles on otol1a	**1.** An expression and purification procedure for the C1q-like domain of otolin-1 from zebrafish was developed. It forms stable trimers in solution in the presence of calcium ions. C1q-like domains were stabilized by the calcium ions.
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