Datasheet for ABIN7550759

Pejvakin Protein (AA 1-352) (His tag)

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Overview

Quantity:	1 mg
Target:	Pejvakin (DFNB59)
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Pejvakin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PJVK Protein expressed in mammalian cells.
Sequence:	MFAAATKSFV KQVGDGGRLV PVPSLSEADK YQPLSLVVKK KRCFLFPRYK FTSTPFTLKD ILLGDREISA GISSYQLLNY EDESDVSLYG RRGNHIVNDV GINVAGSDSI AVKASFGIVT KHEVEVSTLL KEITTRKINF DHSLIRQSRS SRKAVLCVVM ESIRTTRQCS LSVHAGIRGE AMRFHFMDEQ NPKGRDKAIV FPAHTTIAFS VFELFIYLDG AFDLCVTSVS KGGFEREETA TFALLYRLRN ILFERNRRVM DVISRSQLYL DDLFSDYYDK PLSMTDISLK EGTHIRVNLL NHNIPKGPCI LCGMGNFKRE TVYGCFQCSV DGQKYVRLHA VPCFDIWHKR MK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

	• Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Pejvakin (DFNB59)
Alternative Name:	PJVK (DFNB59 Products)
Background:	Pejvakin (Autosomal recessive deafness type 59 protein),FUNCTION: Peroxisome-associated protein required to protect auditory hair cells against noise-induced damage. Acts by regulating noise-induced peroxisome proliferation in auditory hair cells and neurons, and promoting autophagic degradation of damaged peroxisomes (pexophagy). Noise overexposure increases reactive oxygen species (ROS) levels, causing oxidative damage to auditory hair cells and resulting in hearing loss. PJVK acts as a ROS sensor that recruits the autophagy machinery to trigger pexophagy of peroxisomes damaged by oxidative stress. In addition to pexophagy, also required to promote peroxisome proliferation in response to sound overstimulation. {ECO:0000250|UniProtKB:Q0ZLH2}.
Molecular Weight:	39.9 kDa
UniProt:	Q0ZLH3
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months