Proteins



Product Data Sheet

USH1C Protein, Human (His)

Cat. No.: HY-P76966

Synonyms: Harmonin; Antigen NY-CO-38/NY-CO-37; Protein PDZ-73; AIE75

Species: Human Source: E. coli

Accession: Q9Y6N9 (M1-F552)

Gene ID: 10083

Molecular Weight: Approximately 70 kDa

PROPERTIES

AA Sequence				
·	MDRKVAREFR	HKVDFLIEND	AEKDYLYDVL	RMYHQTMDVA
	VLVGDLKLVI	NEPSRLPLFD	AIRPLIPLKH	QVEYDQLTPR
	RSRKLKEVRL	DRLHPEGLGL	SVRGGLEFGC	GLFISHLIKG
	GQADSVGLQV	GDEIVRINGY	SISSCTHEEV	INLIRTKKTV
	SIKVRHIGLI	PVKSSPDEPL	TWQYVDQFVS	ESGGVRGSLG
	SPGNRENKEK	KVFISLVGSR	GLGCSISSGP	IQKPGIFISH
	VKPGSLSAEV	GLEIGDQIVE	VNGVDFSNLD	HKEAVNVLKS
	SRSLTISIVA	AAGRELFMTD	RERLAEARQR	ELQRQELLMQ
	KRLAMESNKI	LQEQQEMERQ	RRKEIAQKAA	EENERYRKEM
	EQIVEEEEKF	KKQWEEDWGS	KEQLLLPKTI	TAEVHPVPLR
	KPKYDQGVEP	ELEPADDLDG	GTEEQGEQDF	RKYEEGFDPY
	SMFTPEQIMG	KDVRLLRIKK	EGSLDLALEG	GVDSPIGKVV
	VSAVYERGAA	ERHGGIVKGD	EIMAINGKIV	TDYTLAEAEA
	ALQKAWNQGG	DWIDLVVAVC	PPKEYDDELT	F F
Biological Activity	Data is not available.			
Appearance	Solution.			
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris, 300 mM NaCl, pH 7.4, 20% Glycerol.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	N/A.			
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.			
Shipping	Shipping with dry ice.			

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DESCRIPTION

Background

USH1C, an anchoring and scaffolding protein, plays a crucial role in the mechanotransduction process within cochlear hair cells, forming an intricate network with USH1G, CDH23, and MYO7A. It is essential for the normal development and maintenance of cochlear hair cell bundles. As a component of the intermicrovillar adhesion complex (IMAC), USH1C contributes to brush border differentiation, exerting control over microvilli organization and length. Its regulatory significance is evident in the assembly of the complex, where it recruits CDHR2, CDHR5, and MYO7B to the tips of microvilli. USH1C participates in various complexes, including IMAC and the complex composed of USH1C, USH1G, and MYO7A. Its interactions extend to F-actin, USH2A, SLC4A7, USHBP1, CDH23, USH1G, MYO7B, CDHR2, CDHR5, and ANKS4B, emphasizing its multifaceted role in cellular processes and protein associations.

Caution: Product has not been fully validated for medical applications. For research use only.

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