

USH1C Protein, Human (His-SUMO)

Cat. No.:	HY-P71659
Synonyms:	AIE 75; AIE75; Antigen NY CO 38/NY CO 37; Deafness autosomal recessive 18; DFNB 18; DFNB18
Species:	Human
Source:	E. coli
Accession:	Q9Y6N9-4(M1-F533)
Gene ID:	10083
Molecular Weight:	Approximately 76.3 kDa

PROPERTIES

/ stocquence	MDRKVAREFR HKVDFLIEND AEKDYLYDVL RMYHQTMI) V A	
	VLVGDLKLVI NEPSRLPLFD AIRPLIPLKH QVEYDQL	PR	
	RSRKLKEVRL DRLHPEGLGL SVRGGLEFGC GLFISHL	KG	
	GQADSVGLQV GDEIVRINGY SISSCTHEEV INLIRTKI	КΤΥ	
	SIKVRHIGLI PVKSSPDEPL TWQYVDQFVS ESGGVRGS	S L G	
	SPGNRENKEK KVFISLVGSR GLGCSISSGP IQKPGIF	SH	
	VKPGSLSAEV GLEIGDQIVE VNGVDFSNLD HKEGRELI	т	
	DRERLAEARQ RELQRQELLM QKRLAMESNK ILQEQQEM	1 E R	
	QRRKEIAQKA AEENERYRKE MEQIVEEEEK FKKQWEEI) W G	
	SKEQLLLPKT ITAEVHPVPL RKPKYDQGVE PELEPADI) L D	
	GGTEEQGEQD FRKYEEGFDP YSMFTPEQIM GKDVRLLF	₹ТК	
	KEGSLDLALE GGVDSPIGKV VVSAVYERGA AERHGGIV	/ K G	
	DEIMAINGKI VTDYTLAEAE AALQKAWNQG GDWIDLVV	/ A V	
	CPPKEYDDEL TFF		
Appearance	Lyophilized powder.		
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.		
For determine Level	at mut an alternative distance and a di		
Endotoxin Level	<1 EU/µg, determined by LAL method.		
Deserveititution			
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.		
Storege & Stability			
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier pro		
	recommended to neeze aliquots at -20 C or -80 C for extended storage.		
Chinning			
Shipping	Room temperature in continental US; may vary elsewhere.		

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.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA