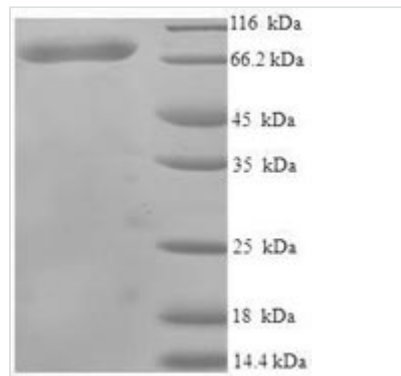




Recombinant Human Harmonin (USH1C)

Product Code	CSB-EP896761HU
Relevance	Required for normal development and maintenance of cochlear hair cell bundles. Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal hearing .
Abbreviation	Recombinant Human USH1C protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9Y6N9
Alias	Antigen NY-CO-38/NY-CO-37Autoimmune enteropathy-related antigen AIE-75Protein PDZ-73Renal carcinoma antigen NY-REN-3Usher syndrome type-1C protein
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDRKVAREFRHKVDFLIENDA EKDYLYDVL RMYHQTMDVAVLVGDLKLVINEP SRLPLFDAIRPLIPLKHQVEYDQLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLE FGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSSISCTHEEVINLIRTKKTVSIK VRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISL VGSRGLGCSISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDH KEGRELFMTDRERLAEARQRELQRQELLMQKRLAMESNKLQEQQEMERQR RKEIAQKAAEENERYRKEMEQIVEEEEFKKQWEEDWGSKEQLLLPKTITAEV HPVPLRKP KYDQGVEPELEPADDLDGGT EEQGEQDFRKYEEGFDPYSMFTP EQIMGKDVRLRLRIKKEGSLDLAEGGVDSPIGKVVVSAVYERGAAERHGGIVK GDEIMAIN GKIVTDYTLAEAEAAALQKAWNQG GDWIDL VVAVCPPKEYDDELTF F
Research Area	Neuroscience
Source	E.coli
Target Names	USH1C
Expression Region	1-533aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	76.3kDa
Protein Length	Full Length of Isoform 4
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Expressing the recombinant Human USH1C protein in e.coli cells involves inserting a DNA fragment encoding the Human USH1C protein (1-533aa) into a plasmid vector and transferring it to the e.coli cells. Positive cells are screened, cultured, and induced to express the USH1C protein. The protein carries a N-terminal 6xHis-SUMO tag. The cells are lysed to collect the recombinant Human USH1C protein, which is purified through affinity purification and then identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the resulting recombinant Human USH1C protein exceeds 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.