Recombinant human Harmonin/USH1C protein

Catalog Number: ATGP0337

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-533aa

UniProt No.
Q9Y6N9

NCBI Accession No.
AAH16057

Alternative Names
AIE 75, Autoimmune enteropathy related antigen AIE 75, Deafness autosomal recessive 18, DFNB 18, Harmonin, NY CO 37, NY CO 38, PDZ 45, PDZ 73, Renal carcinoma antigen NY REN 3, USH 1C, Ush1cpst, Usher syndrome 1C (autosomal recessive severe), Usher syndrome type 1C protein

PRODUCT SPECIFICATION

Molecular Weight
64.6 kDa (570aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Harmonin, product encoded by uSH1c gene, is a scaffold protein that functions in the assembly of usher protein complexes. usher syndrome type I caused by mutations in uSH1C is an autosomal recessive sensory defect involving congenital profound sensorineural deafness, vestibular dysfunction, and blindness due to progressive retinitis pigmentosa. Hormonin has the ability to bind to many other proteins in cell membranes and coordinates

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their activities. Recombinant human Harmonin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

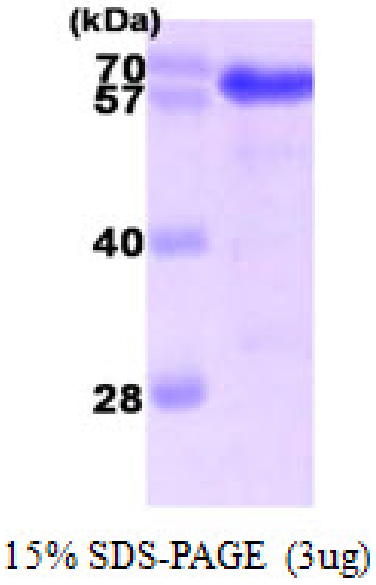
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMDR KVAREFRHKV DFLIENDAEK DYLYDVLRMY HQTMDVAVLV GDLKLVINEP SRLPLFDAIR PLIPLKHQVE YDQLTPRRSR KLKEVRLDRL HPEGLGLSVR GGLEFGCGLF ISHLIKGGQA DSVGLQVGDE IVRINGYSIS SCTHEEVINL IRTKKTVSIK VRHIGLIPVK SSPDEPLTWQ YVDQFVSESG GVRGSLGSPG NRENKEKKVF ISLVGSRGLG CSISSGPIQK PGIFISHVKP GSLSAEVGLE IGDQIVEVNG VDFSNLDHKE GRELFMTDRE RLAEARQREL QRQELLMQKR LAMESNKILQ EQQEMERQRR KEIAQKAAEE NERYRKEMEQ IVEEEEKFKK QWEEDWGSKE QLLLPKTITA EVHPVPLRKP KYDQGVEPEL EPADDLDGGT EEQGEQDFRK YEEGFDPYSM FTPEQIMGKD VRLLRIKKEG SLDLALEGGV DSPIGKVVVS AVYERGAAER HGGIVKGDEI MAINGKIVTD YTLAEADAAL QKAWNQGGDW IDLVVAVCPP KEYDDELTFF

General References

Siemens J., et al. (2002). Proc Natl Acad Sci u S A. 99(23):14946-51.
Ouyang XM., et al. (2002). Hum Genet. 111(1):26-30.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.