

Recombinant human HSPB8 protein

Catalog Number: ATGP0493

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-196aa

UniProt No.

Q9UJY1

NCBI Accession No.

NP_055180.1

Alternative Names

Heat shock protein beta-8, CRYAC, E2IG1, CMT2L, DHMN2, HMN2, HMN2A, Heat shock protein beta-8, heat shock 22kDa protein 8, H11, HSP22, HspB8

PRODUCT SPECIFICATION

Molecular Weight

23.7 kDa (216aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 20% glycerol

Purity

> 90% 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

Heat shock protein beta-8 (HSPB8), also known as HSP22, member of the small heat shock protein superfamily. HSPB8 is predominantly transcribed in skeletal muscle and heart. The chaperone-like activity is of great importance to the function of HSPB8 in various processes including proliferation, apoptosis and macroautophagy. Mutations in the HSPB8 gene are associated with the inherited peripheral neuropathies, autosomal dominant distal hereditary motor neuropathy type IIA (dSMA) and axonal Charcot-Marie-Tooth disease type 2L (CMT2L).

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Recombinant human HSPB8, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MADGQMPFSC HYP SRLRRDP FRDSPLSSRL LDDGFGMDPF PDDL TASWPD
WALPRLSSAW PGTLRSGMVP RGPTATARFG VPAEGRTPPP FPGEPWKVCV NVHSFKPEEL MVKTKDGYVE VSGKHEEKQQ
EGGIVSKNFT KKIQLPAEVD PTVFASLSP EGLLIEAPQ VPPYSTFGES SFNNELPQDS QEVTCT

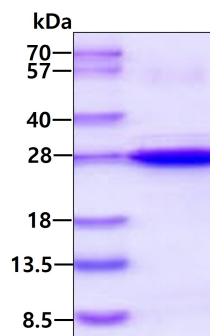
General References

Sun X., et al. (2004) *J Biol Chem.* 279(4):2394-402.

Benndorf R., et al. (2001) *J Biol Chem.* 276:26753-61.

DATA

SDS-PAGE



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