## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-196aa

## UniProt No.

Q9UJY1

## NCBI Accession No.

NP_055180

## 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

$0.5 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer ( pH 8.0 ) containing $100 \mathrm{mM} \mathrm{NaCl}, 20 \%$ glycerol

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80 C . 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).

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 HYPSRLRRDP FRDSPLSSRL LDDGFGMDPF PDDLTASWPD WALPRLSSAW PGTLRSGMVP RGPTATARFG VPAEGRTPPP FPGEPWKVCV NVHSFKPEEL MVKTKDGYVE VSGKHEEKQQ EGGIVSKNFT KKIQLPAEVD PVTVFASLSP EGLLIIEAPQ 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



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

