

# Recombinant human HAND1 protein

Catalog Number: ATGP1739

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-215aa

### UniProt No.

O96004

### NCBI Accession No.

NP\_004812

### Alternative Names

Heart and neural crest derivatives-expressed protein 1, bHLHa27, eHand, Hxt, Thing1

## PRODUCT SPECIFICATION

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### Molecular Weight

26 kDa (238aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

HAND1 belongs to the basic helix-loop-helix family of transcription factors. This protein is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation. Recombinant human HAND1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli.

## Amino acid Sequence

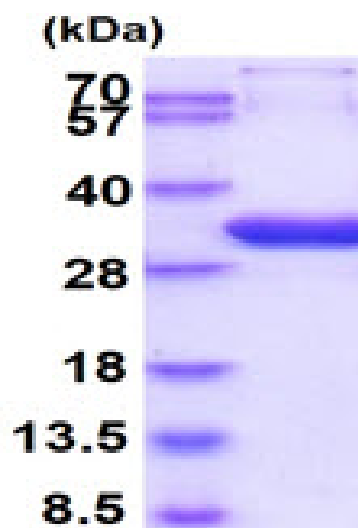
MGSSHHHHHHH SSSLVPRGSH MGSMNLVGSY AHHHHHHHHPH PAHPMLHEPF LFGPASRCHQ ERPYFQSWLL  
SPADAAPDFP AGGPPPAAAA AATAYGPDAR PGQSPGRLEA LGGRLGRRKG SGPKKERRRT ESINSAFAEL RECIPNVPAD  
TKLSKIKTLR LATSIIAYLM DVLAKDAQSG DPEAFKAELK KADGGRESKR KRELQQHEGF PPALGPVEKR IKGRTGWPQQ  
VWALELNQ

## General References

Scott IC., et al. (2000). Mol Cell Biol. 20(2):530-41.  
Srivastava D. Trends Cardiovasc Med. 1999 Jan-Feb  
9(1-2):11-8.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)