

# Recombinant human HIP/ST13 protein

Catalog Number: HIP0905

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-369aa

### UniProt No.

P50502

### NCBI Accession No.

NP\_003923

### Alternative Names

Hsc70-interacting protein, ST13, HOP, SNC6, FAM10A1, Hsc70-interacting protein

## PRODUCT SPECIFICATION

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### Molecular Weight

41.3 kDa (369aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### 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

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### Description

Hip (Hsc70-interacting protein), also known as ST13, is a co-chaperone to the major heat shock proteins, Hsp70 and Hsp90, and appears in early receptor complexes. Through mutual binding to both Hsp70 and Hsp90, Hip functions as an adaptor that can integrate Hsp70 and Hsp90 interactions. Also, Hip has been shown to be involved in the assembly process of glucocorticoid receptor, which requires the assistance of multiple molecular

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chaperones. Recombinant human Hip was expressed in *E. coli* and purified by using conventional chromatography

## Amino acid Sequence

MDPRKVNELR AFVKMCKQDP SVLHTEEMRF LREWVESMGG KVPPATQKAK SEENTKEEKP DSKKVEEDLK ADEPSSEESD  
LEIDKEGVIE PDTDAPQEMG DENAEITEEM MDQANDKKVA AIEALNDGEL QKAI DLFTDA IKLNPR LAIL YAKRASVFK  
LQKPNAAIRD CDRAIEINPD SAQPYKWRGK AHRLLGHWEE AAHDLALACK LDYDEDASAM LKEVQPRAQK IAEHRRKYER  
KREEREIKER IERVKKAREE HERAQREEEA RRQSGAQYGS FPGGFPGGMP GNFPGGMPGM GGGMPGMAGM PGLNEILSDP  
EVLAAMQDPE VMVAFQDVAQ NPANMSKYQS NPKVMNLISK LSAKFGGQA

## General References

Nelson GM., et al. (2004). *Mol Endocrinol.* 18(7):1620-30  
Johnson BD., et al. (1998). *J Biol chem.* 273(6):3679-86

## DATA

### SDS-PAGE

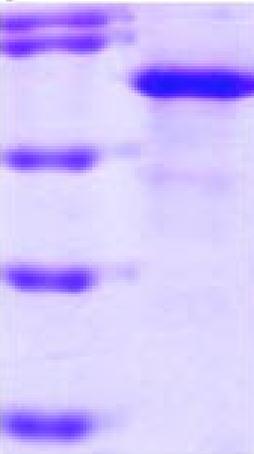
(kDa)

57

40

28

18



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

15% SDS-PAGE (3ug)