

Recombinant Full Length Human HSBP1 Protein, GST-tagged

Cat. No. HSBP1-3704HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HSBP1 full-length ORF (AAH07515, 1 a.a. - 76 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	76 amino acids
Description	The heat-shock response is elicited by exposure of cells to thermal and chemical stress and through the activation of HSFs (heat shock factors) results in the elevated expression of heat-shock induced genes. Heat shock factor binding protein 1 (HSBP1), is a 76-amino-acid protein that binds to heat shock factor 1(HSF1), which is a transcription factor involved in the HS response. During HS response, HSF1 undergoes conformational transition from an inert non-DNA-binding monomer to active functional trimers. HSBP1 is nuclear-localized and interacts with the active trimeric state of HSF1 to negatively regulate HSF1 DNA-binding activity. Overexpression of HSBP1 in mammalian cells represses the transactivation activity of HSF1. When overexpressed in C.elegans HSBP1 has severe effects on survival of the animals after thermal and chemical stress consistent with a role of HSBP1 as a negative regulator of heat shock response. [provided by RefSeq]
Molecular Mass	34.1 kDa
AA Sequence	MAETDPKTVQDLTSSVQTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMT

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Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[HSBP1 heat shock factor binding protein 1 \[Homo sapiens \]](#)

Official Symbol

[HSBP1](#)

Synonyms

HSBP1; heat shock factor binding protein 1; heat shock factor-binding protein 1; nasopharyngeal carcinoma-associated antigen 13; NPC-A-13; DKFZp686D1664; DKFZp686O24200;

Gene ID

[3281](#)

mRNA Refseq

[NM_001537](#)

Protein Refseq

[NP_001528](#)

MIM

[604553](#)

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UniProt ID

O75506

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