

Recombinant Human HSBP1, GST-tagged

Cat. No. HSBP1-13949H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSBP1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-76a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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](#)

UniProt ID [O75506](#)

Chromosome Location 16q23.3

Function transcription corepressor activity;

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