

Recombinant Human HSBP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSBP1-824H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSBP1 MS Standard C13 and N15-labeled recombinant protein (NP_001528) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	8.5 kDa
AA Sequence	MAETDPKTVQDLTSVVQTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMT

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QAGVEELENKIPATQKSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HSBP1 heat shock factor binding protein 1 [Homo sapiens (human)]
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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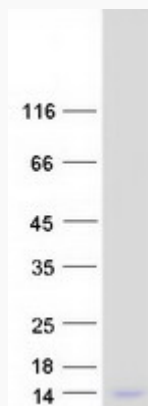
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UniProt ID

O75506

SDS-PAGE

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