

Product datasheet for SA6022X

HSBP1 / HSF1BP Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	HSBP1 / HSF1BP human protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAETDPKTVQ DLTSVQTLT QMQDKFQTM SDQIIGRIDD MSSRIDDLK NIADLMTQAG VEELESENKI PATQKS
Predicted MW:	8.543 kDa
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid protein Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM DTT, 20% Glycerol
Preparation:	Liquid protein
Protein Description:	This protein was overexpressed in E. coli and was purified to apparent homogeneity by using conventional column chromatography techniques.
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001528
Locus ID:	3281
UniProt ID:	O75506
Cytogenetics:	16q23.3
Synonyms:	NPC-A-13



[View online »](#)

Summary:

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, Jul 2008]

Protein Families:

Transcription Factors

Product images: