

Product datasheet for PH301399

HSBP1 (NM_001537) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HSBP1 MS Standard C13 and N15-labeled recombinant protein (NP_001528)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201399
Predicted MW:	8.5 kDa
Protein Sequence:	>RC201399 protein sequence Red=Cloning site Green=Tags(s) MAETDPKTVQDLTSVVQTLTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMTQAGVEELENKI PATQKS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001528
RefSeq Size:	1989
RefSeq ORF:	228
Synonyms:	NPC-A-13
Locus ID:	3281
UniProt ID:	O75506
Cytogenetics:	16q23.3



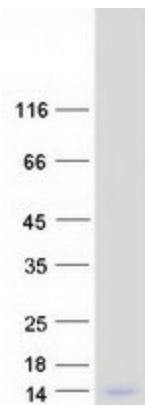
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Summary:

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:

Coomassie blue staining of purified HSBP1 protein (Cat# [TP301399]). The protein was produced from HEK293T cells transfected with HSBP1 cDNA clone (Cat# [RC201399]) using MegaTran 2.0 (Cat# [TT210002]).