
Product Data Sheet

Product Name: HSPBP1 Human

Cat. No.: GP25121

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hsp70-binding protein 1; Heat shock protein-binding protein 1; Hsp70-interacting protein 1; Hsp70-binding protein 2; Hsp70-interacting protein 2; HspBP1; HspBP2; HSPBP1; HSPBP; FES1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSDEGSRGSR LPLALPPASQ GCSSGGGGGG GGGSSAGGSG NSRPPRNLQG LLQMAITAGS EEPDPPPEPM SEERRQWLQE AMSAAFRGQR EEVEQMKSCS RVLSQMPPT AGEAEQAADQ QEREGALELL ADLCENMDNA ADFCQLSGMH LLVGRYLEAG AAGLRWRAAQ LIGTCSQNVA AIQEQVLGLG ALRLLLRLLD RDACDTRVK ALFAISCLVR EQEAGLLQFL RLDGFSVLMR AMQQQVQKLVKSAFLLQNL LVGHPEHKGT LCSMGMVQQQL VALVRTEHSP FHEHVLGALC SLVTDFPQGV RECREPELGL EELLRHRCQL LQQHEEYQEELEFCEKLLQT CFSSPADDSM DR.		
Formulation	HSPBP1 solution containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol, 2mM EDTA and 0.1M NaCl.		

Introduction

Hsp70-binding protein 1 (HSPBP1) is a member of a family of eukaryotic proteins identified as nucleotide exchange factors for HSP 70 that exhibit varying degrees of compartment and species specificity. HSPBP1 is localized mainly in cytoplasm and nucleus but is also found extracellularly. HSPBP1 is mostly expressed in heart and skeletal muscle. HSPBP1 binds to HSP 70, inhibits its activity and promotes dissociation of nucleotides from the HSP 70 ATPase domain. In addition, HSPBP1 inhibits HSPA1A chaperone activity by changing the conformation of the ATP-binding domain of HSPA1A and obstructing the ATP binding. HSPBP1 may also have a role in tumor (dys)regulation of chaperone proteins. Furthermore, HSPBP1 hinders ubiquitination mediated by STUB1 and inhibits chaperone-assisted degradation of immature CFTR.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

HSPBP1 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

Background

HSPBP1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 382 amino acids (1-362 a.a.) and having a molecular mass of 41.6kDa. HSPBP1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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