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HSPBP1 Human

Description: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.

Catalog #:HYPS-037

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSDEGSRGSR LPLALPPASQ GCSSGGGGGG GGGSSAGGSG NSRPPRNLQG LLQMAITAGS EEPDPPPEPM SEERRQWLQE AMSAAFRGQR EEVEQMKSCL RVLSQPMPPT AGEAEQAADQ QEREGALELL ADLCENMDNA ADFCQLSGMH LLVGRYLEAG AAGLRWRAAQ LIGTCSQNVA AIQEQVLGLG ALRKLLRLLD RDACDTVRVK AL

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
HSPBP1 solution containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol, 2mM EDTA and 0.1M NaCl.

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

Usage:
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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.

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