Recombinant Human HSP40 (C-6His)

Catalog No: CF72

Description	Recombinant Human Heat Shock 40 kDa Protein is produced by our E.coli expression system and the target gene encoding Gly2-Ile340 is expressed with a 6His tag at the C-terminus.
Source	E. coli
Alternative name	DnaJ Homolog Subfamily B Member 1; DnaJ Protein Homolog 1; Heat Shock 40 kDa Protein 1; HSP40; Heat Shock Protein 40; Human DnaJ Protein 1; hDj-1; DNAJB1; DNAJ1; HDJ1; HSPF1
Accession No.	P25685
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, pH 7.4.
Predicted Molecular Weight	39.1kDa
AP Molecular Weight	38kDa, reducing conditions.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Background	DnaJ Homolog Subfamily B Member 1 (DNAJB1) is a member of the heat shock protein family. Heat shock proteins (HSPs) are a highly conserved family of stress response proteins. HSPs function primarily as molecular chaperones, facilitating the folding of other cellular proteins, preventing protein aggregation, or targeting improperly folded proteins to specific degradative pathways. DNAJB1 regulates cellular processes by aiding in the folding, transport and assembly. DNAJB1 contains a J-domain which controls interaction with the ATPase domain of DnaK. DNAJB1 interacts with HSP70 and can stimulate its ATPase activity. In addition, DNAJB1 stimulates the association between HSC70 and HIP.

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