Recombinant Human HSP40/DNAJB1 Protein (His Tag)

Catalog Number: PKSH032362

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

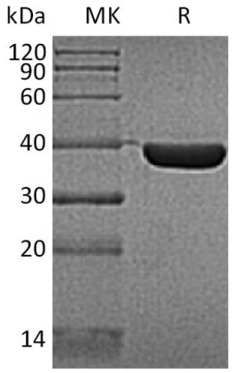
Description

Species	Human
Source	E.coli-derived Human HSP40;DNAJB1 protein Gly2-Ile340, with an C-terminal His
Calculated MW	39.1 kDa
Observed MW	38 kDa
Accession	P25685
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 1mM EDTA, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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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