

Recombinant Human Heat shock cognate 71 kDa protein/HSC70 Protein

Catalog No.: RP03267 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3312	P11142-1

Tags

N-His

Synonyms

Heat shock cognate 71 kDa protein; Heat shock 70 kDa protein 8; HSPA8; HSC70; HSP73; HSPA10; Lipopolysaccharide-associated protein 1; LPS-associated protein 1; LAP-1; HEL-33; NIP71

Product Information

Source	Purification
E.coli	> 90% by SDS-PAGE.

Calculated MW	Observed MW
72.4 kDa	60-70 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, 10% glycerol, pH 7.5. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

HSC70, also known as HSPA8, is a member of the heat shock protein family. It is homologous to other heat shock proteins. The heat shock protein 70 family is comprised of both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. HSPA8 belongs to the heat-shock cognate subgroup. Members of the human heat-shock protein multigene family have several highly conserved proteins with structural and functional properties in common but vary in the extent of their inducibility in response to metabolic stress. HSPA8 is constitutively expressed and performs functions related to normal cellular processes. This protein binds to nascent polypeptides to facilitate correct protein folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during the transport of membrane components through the cell.

Basic Information

Description

Recombinant Human HSC70 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Asp646) of human HSC70 (Accession #P11142-1) fused with His tag at the N-terminus.

Bio-Activity

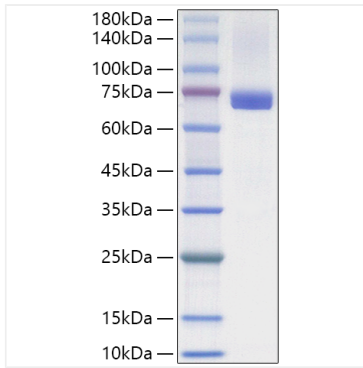
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human HSC70 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 60-70 kDa.