

HSP70/HSPA1A Protein, Human, Recombinant (E110D, His)

General Information

Synonyms:	heat shock 70kDa protein 1A;HSP72;HSP70I;HSP70-1A;HEL-S-103;HSP70-1;HSPA1
Protein Construction:	Ala2-Asp641(Glu110Asp)
Species:	Human
Expression Host:	E. coli
Accession:	P0DMV8-1
Molecular Weight:	72.2 kDa (Predicted and reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 25mM Tris, 100mM Glycine, 10% Glycerol (pH 7.4).

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Chaperones of the 70 kDa heat shock protein (Hsp70) superfamily are key components of the cellular proteostasis system. Together with its co-chaperones, Hsp70 forms proteostasis subsystems that antagonize protein damage during physiological and stress conditions.

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