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**Product Data Sheet**


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Product Name: HSPA8 Human  
 Cat. No.: GP25109  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	LAP1; HSC54; HSC70; HSC71; HSP1; HSP73; NIP71; HSPA10; MGC29929; MGC131511; HSPA8; Heat shock cognate 71 kDa protein; Heat shock 70 kDa protein 8.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MSKGPAVGID LGTTYSCVGV FQHGKVEIIA          NDQGNRTTTPS YVAFTDTERL IGDAAKNQVA MNPTNTVFDA KRLIGRRFDD          AVVQSDMKHW PFMVVNDAGR PKVQVEYKGE TKSFYPEEVS SMVLTKMKEI          AEAYLGKTVT NAVVTVPAYF NDSQRQATKD AGTIAGLNVL RIINEPTAAA          IAYGLDKKVG AERNVLIFDL GGGTFDVSIL TIEDGIFEVK STAGDTHLGG          EDFDNRMVNH FIAEFKRKHK KDISENKRAV RRLRTACERA KRTLSSSTQA          SIEIDSLYEG IDFYTSITRA RFEELNADLF RGTLDPVEKA LRDAKLDKSQ          IHDIVLVGGS TRIPKIQKLL QDFFNGKELN KSINPDEAVA YGAAVQAAIL          SGDKSENVQD LLLLDVTPLS LGIETAGGVM TVLIKRNTTI PTKQTQTFTT          YSDNQPGVLI QVYEGERAMT KDNLLGKFE LTGIPPAPRG VPQIEVTFDI          DANGILNVSA VDKSTGKENK ITITNDKGRL SKEDIERMVQ EAEKYKAEDE          KQRDKVSSKN SLESYAFNMK ATVEDEKLQG KINDEDKQKI LDKCNEIINW          LDKNQTAEKE EFEHQQKELE KVCNPIITKL YQSAGGMPGG MPGGFPGGGA          PPSGGASSGP TIEEVD.</p>		
Formulation	The HSC70 protein solution contains 20mM Tris, pH-8 & 10% Glycerol.		

**Introduction**

HSPA8 is part of the heat shock protein 70 family which includes both heat-inducible and constitutively expressed proteins (heat-shock cognate proteins). HSPA8 is a heat-shock cognate protein that binds to nascent polypeptides to facilitate correct folding. HSPA8 plays a role as an ATPase in the disassembly of clathrin-coated vesicles through transport of membrane components through the cell. HSPA8 is expressed in colon

**Caution: Product has not been fully validated for medical applications. For research use only.**

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cancer cells, HSPA8 takes part in reovirus outer capsid disassembly, through membrane penetration, to plan the entering particle for gene expression and replication. serum HSPA8 concentrations are reduced in normal human pregnancy. HSPA8 plays a role in androgen action on dermal papilla cells. HSPA8 is directly linked with Influenza virus matrix protein 1 and thus required for viral production.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Human HSC70 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 666 amino acids (1-646 a.a.) and having a molecular mass of 73.1kDa. HSC70 human recombinant is fused to 20 amino acid His Tag at N-terminus and purified by conventional chromatography techniques.

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