

Datasheet for 009-001-F62S**HSP60 protein-GST fusion****Overview**

Description:	HSP60 recombinant protein-GST fusion protein - 009-001-F62S
Item No.:	009-001-F62S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	HSP60 is a chaperonin protein, required for ATP-dependent folding of precursor polypeptides and complex assembly and prevents aggregation and mediates protein refolding after heat shock. Mutations and variations in the HSP 60 gene product may be implicated in genetic diseases (1). HSP60 has been strongly implicated as an example of molecular mimicry in the pathogenicity of autoimmune diseases in T cell-mediated protection. Human HSP60 was found to activate the complement system in normal human serum in a dose-dependent manner. Since complement activation plays an important role in the development of atherosclerosis, the levels of complement-activating anti-HSP60 antibodies are elevated in atherosclerosis-related diseases. (2) HSP60 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Cancer, Cardiovascular Disease, Cellular Stress, and Inflammation research.
Synonyms:	HSPD1, CPN60, GROEL, HSP65, SPG13, HuCHA60, 60 kDa heat shock protein, mitochondrial, 60 kDa chaperonin, Chaperonin 60, CPN60, Heat shock protein 60, HuCHA60, Mitochondrial matrix protein P1, P60 lymphocyte protein
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	HSPD1
Purity/Specificity:	Recombinant full-length human HSP60 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.

Relevant Links:

- [NCBI - NM_002156](#)

Application Details

Application Note:	HSP60 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. HSP60 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~85kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

