

Datasheet for ABIN6699927
HSPD1 Protein (GST tag)



[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	HSPD1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSPD1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	HSP60 recombinant protein-GST fusion protein
Purification:	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.
Purity:	>95%

Target Details

Target:	HSPD1
Alternative Name:	HSPD1 (HSPD1 Products)
Background:	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

Target 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.

NCBI Accession: [NM_002156](#)

Pathways: [Activation of Innate immune Response](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Application Note: HSP60 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol. HSP60 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~85 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Western Blot Dilution: User Optimized

Other: Kinase Assay-User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: HSP60 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after

Handling

centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months