Product Information

HSP70, GST-tagged, human recombinant, expressed in E. coli cells

Catalog Number SRP5255
Storage Temperature –70 °C

Synonyms: HSPA1A, HSP70-1, HSP72, HSPA1, HSPA1B, DAQB-147D11.1

Product Description

HSP70 is a member of the heat shock protein family and is synthesized by cells of many organisms in response to stress.1 HSP70 is found mostly, but not exclusively, in the nucleus of unstressed cells. For several hours after a short heat shock, it is strongly concentrated in nucleoli.2 Nucleoli are transiently damaged by such a heat shock. Their morphology changes, and assembly and export of ribosomes are blocked for several hours. HSP70 helps to stabilize the morphological changes of the nucleoli.

Recombinant full-length human HSP70 was expressed in E. coli cells using an N-terminal GST-tag. The gene accession number is NM_005345. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~96 kDa

The enzymatic activity of this product has not been determined.

Figure 1.
SDS-PAGE Gel of Typical Lot:
≥70% (SDS-PAGE, densitometry)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

References


RC,MAM 10/12-1