

Recombinant Mouse Heat Shock Protein 5

Cat. No. Hspa5-2071M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Heat Shock Protein 5 is produced in <i>E. coli</i> .
Species	Mouse
Source	E.coli
Description	Binding immunoglobulin protein (BiP) (also called glucose regulated protein 78, Grp78) is a molecular chaperone that uses ATP/ADP cycling to regulate protein folding by the protein disulfide isomerase (PDI) family of proteins. It is a 78 kDa glucose-regulated heat shock protein and is involved in unfolded protein response. HSPA5 is its human gene. It binds to immunoglobulin heavy chain.
Concentration	0.5mg/ml.
Formulation	Liquid. In 50mM HEPES, pH 7.5, containing 150mM KCl and 10mM MgCl ₂ .
Purity	≥99% (SDS-PAGE; MS).
Handling	For maximum product recovery after thawing, centrifuge the vial before opening the cap. Avoid freeze/thaw cycles.
Storage And Stability	-80°C. Avoid freeze/thaw cycles. Short term storage: +4°C.

GENE INFORMATION

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Gene Name	Hspa5 heat shock protein 5 [Mus musculus]
Synonyms	Hspa5; heat shock protein 5; 78 kDa glucose-regulated protein; GRP-78; OTTMUSP00000012896; OTTMUSP00000012897; glucose regulated protein, 78 kDa; heat shock 70 kDa protein 5; heat shock 70kD protein 5 (glucose-regulated protein, 78kD); immunoglobulin heavy chain-binding protein; Bip; Sez7; mBiP; Grp78; SEZ-7; Hsce70; AL022860; AU019543; D2Wsu17e; D2Wsu141e; Hspa5
Gene ID	14828
mRNA Refseq	NM_001163434
Protein Refseq	NP_001156906
UniProt ID	P20029
Chromosome Location	2 B; 2 22.5 cM
Pathway	Antigen processing and presentation; Prion diseases; Protein export
Function	ATP binding; ATP-dependent protein binding; misfolded protein binding; nucleotide binding; protein binding; ribosome binding

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