

## Recombinant Mouse Heat Shock Protein 5

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

### SPECIFICATION

|                              |   |
|------------------------------|---|
| <b>Product Overview</b>      | Recombinant Mouse Heat Shock Protein 5 is produced in <i>E. coli</i> .  |
| <b>Species</b>               | Mouse   |
| <b>Source</b>                | <i>E. coli</i>  |
| <b>Description</b>           | 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. |
| <b>Concentration</b>         | 0.5mg/ml.   |
| <b>Formulation</b>           | Liquid. In 50mM HEPES, pH 7.5, containing 150mM KCl and 10mM MgCl <sub>2</sub> .  |
| <b>Purity</b>                | ≥99% (SDS-PAGE; MS).  |
| <b>Handling</b>              | For maximum product recovery after thawing, centrifuge the vial before opening the cap. Avoid freeze/thaw cycles.   |
| <b>Storage And Stability</b> | -80°C. Avoid freeze/thaw cycles. Short term storage: +4°C.  |

### GENE INFORMATION

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|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | Hspa5 heat shock protein 5 [ <i>Mus musculus</i> ]  |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 14828   |
| <b>mRNA Refseq</b>         | NM_001163434  |
| <b>Protein Refseq</b>      | NP_001156906  |
| <b>UniProt ID</b>          | P20029  |
| <b>Chromosome Location</b> | 2 B; 2 22.5 cM  |
| <b>Pathway</b>             | Antigen processing and presentation; Prion diseases; Protein export   |
| <b>Function</b>            | ATP binding; ATP-dependent protein binding; misfolded protein binding; nucleotide binding; protein binding; ribosome binding  |

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