

Recombinant Rat Hspa5 Protein, His-tagged

Cat. No. Hspa5-1639R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Hspa5 Protein (Gln260-Glu469) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Gln260-Glu469
Description	Enables misfolded protein binding activity and unfolded protein binding activity. Involved in several processes, including cellular response to cAMP; cellular response to gamma radiation; and cellular response to metal ion. Acts upstream of or within response to endoplasmic reticulum stress. Located in membrane; mitochondrion; and smooth endoplasmic reticulum. Biomarker of fatty liver disease; post-traumatic stress disorder; transient cerebral ischemia; ureteral obstruction; and visual epilepsy. Human ortholog(s) of this gene implicated in dopamine beta-hydroxylase deficiency. Orthologous to human HSPA5 (heat shock protein family A (Hsp70) member 5).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.6 kDa Accurate Molecular Mass: 25 kDa
Purity	> 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Hspa5 heat shock protein 5 [Rattus norvegicus (Norway rat)]
Official Symbol	Hspa5
Synonyms	HSPA5; heat shock protein 5; 78 kDa glucose-regulated protein; GRP 78; GRP-78; heat shock 70kD protein 5; heat shock 70 kDa protein 5; steroidogenesis-activator polypeptide; immunoglobulin heavy chain-binding protein; heat shock 70kDa protein 5 (glucose-regulated protein); BIP;
Gene ID	25617
mRNA Refseq	NM_013083

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Protein Refseq	NP_037215
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UniProt ID	P06761
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