

# Product Datasheet

## Recombinant Human GRP78/HSPA5 GST (N-Term) Protein H00003309-P01-10ug

Unit Size: 10 ug

Store at -80C. Avoid freeze-thaw cycles.

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**H00003309-P01-10ug****Recombinant Human GRP78/HSPA5 GST (N-Term) Protein**

<b>Product Information</b>	
<b>Unit Size</b>	10 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -80C. Avoid freeze-thaw cycles.
<b>Preservative</b>	No Preservative
<b>Purity</b>	>80% by SDS-PAGE and Coomassie blue staining
<b>Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
<b>Target Molecular Weight</b>	95.7 kDa
<b>Product Description</b>	
<b>Description</b>	<p>Recombinant protein with GST tag at N-terminal corresponding to the amino acids 19-654 of Human HSPA5</p> <p><b>Source:</b> <i>Wheat Germ (in vitro)</i></p> <p><b>Amino Acid Sequence:</b>            EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEG            ERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVVEKKTTP            YIQVDIGGGQTKTFAPEEISAMVLTKMKETA EAYLGKKVTHAVVTPAYFNDAQ            RQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLL            TIDNGVFEVVATNGDTHLGGEDFDQRVMEHFILYKKKTGKDV RKDNRAVQKL            RREVEKAKRALSSQHARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPV            QKVLESDLKKS DIDEIVLVGGSTRIPKIQLVKEFFNGKEPSRGINPDEAVAYG            AAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIF            STASDNQPTVTIKVYGERPLTKDNHLLGTFDLTGIPPAPRGVVPQIEVTFEIDVN            GILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDT            RNELESYAYSLKNQIGDKEKLGKLSSEDKETMEKAVEEKIEWLESHQDADIED            FKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL</p>
<b>Gene ID</b>	3309
<b>Gene Symbol</b>	HSPA5
<b>Species</b>	Human
<b>Preparation Method</b>	in vitro wheat germ expression system
<b>Details of Functionality</b>	This protein was produced in an in vitro wheat germ expression system that should preserve correct conformational folding that is necessary for biological function. While it is possible that this protein could display some level of activity, the functionality of this protein has not been explicitly measured or validated.
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Protein Array, Immunoaffinity Purification
<b>Recommended Dilutions</b>	Western Blot, ELISA, Protein Array, Immunoaffinity Purification

**Images**

SDS-Page: Recombinant Human GRP78/HSPA5 Protein [H00003309-P01] - 12.5% SDS-PAGE Stained with Coomassie Blue.

**Publications**

Shimizu Fumitaka, Schaller Kristin L, Owens Gregory P et al. Glucose-regulated protein 78 autoantibody associates with blood-brain barrier disruption in neuromyelitis optica. *Science Translational Medicine* 2017-07-05 [PMID: 28679661] (WB, Mouse)

Lu MC, Lai NS, Yin WY et al. Anti-citrullinated Protein Antibodies Activated ERK1/2 and JNK Mitogen-activated Protein Kinases via Binding to Surface-expressed Citrullinated GRP78 on Mononuclear Cells *J Clin Immunol* 2012-11-28 [PMID: 23188524] (Func)

Taylor DD, Gercel-Taylor C, Parker LP. Patient-derived tumor-reactive antibodies as diagnostic markers for ovarian cancer. *Gynecol Oncol* 115(1):112-20. 2009-10-01 [PMID: 19647308]

Hu X, Zhang Y, Zhang A et al. Comparative serum proteome analysis of human lymph node negative/positive invasive ductal carcinoma of the breast and benign breast disease controls via label-free semiquantitative shotgun technology. *OMICS*. 2009-08-01 [PMID: 19624269]



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### **Products Related to H00003309-P01-10ug**

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NBP1-06274PEP	GRP78/HSPA5 Antibody Blocking Peptide
AF835	Caspase-3 Antibody [Unconjugated] - Active
NBP1-06274	GRP78/HSPA5 Antibody - BSA Free
NB100-2323	IRE1 alpha [p Ser724] Antibody - BSA Free

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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