Active Recombinant Human HSPA5 protein, His-tagged

Cat. No. HSPA5-1551H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length (aa 1-654) human GRP78 BiP Protein with His tag.
Species	Human
Source	E.coli
ProteinLength	1-654 a.a.
Description	The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell.
Form	20 mM Tris-HCl, pH 7.5, 50 mM KCl, 1 mM DTT, 5 mM MgCl2.
Bio-activity	GRP78 has ATPase activity at the time of manufacture of 2.3 μM phosphate liberated/hr/μg protein in a 200 μl reaction at 37 centigrade (pH7.5) in the presence of 20 μl of 1 mM ATP using a Malachite Green assay.
Molecular Mass	78 kDa
Storage	Stable for 2 years at -70 centigrade from date of shipment. Please aliquot to avoid repeated freezing and thawing.
Full Length	Full L.

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GENE INFORMATION

Gene Name	HSPA5 heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) [Homo sapiens]
Official Symbol	HSPA5
Synonyms	HSPA5; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa); GRP78, heat shock 70kD protein 5 (glucose regulated protein, 78kD); 78 kDa glucose-regulated protein; BiP; immunoglobulin heavy chain-binding protein; endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; BIP; MIF2; GRP78; FLJ26106;
Gene ID	3309
mRNA Refseq	NM_005347
Protein Refseq	NP_005338
MIM	138120
UniProt ID	P11021

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