

HSPA5

Recombinant Human HSPA5 (aa 20-650) His

Catalog No.	CRH131A CRH131B	Quantity:	100 µg 500 µg
Alternate Names:	HSPA5 (heat shock 70kDa protein 5), GRP78 (glucose-regulated protein, 78kD), MIF2		
Gene ID:	3309		
Protein Accession No:	NP_005338		
Description:	Binding immunoglobulin protein (BiP) belongs to the family of ~70 kDa heat shock proteins (HSP 70). It is a stress response protein which is induced by agents or conditions that adversely affect endoplasmic reticulum (ER) function. This protein is essential for the proper glycosylation, folding as well as for the maintenance of cell homeostasis and the prevention of apoptosis. Recombinant human BIP protein, fused to His-tag at C-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.		
Concentration:	1 mg/ml (determined by Bradford assay)		
Source:	<i>E. coli</i>		
Molecular Weight:	71 kDa (640 aa)		
Formulation:	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol		
Purity:	> 90% by SDS - PAGE		
Amino Acid Sequence:	<p>MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLKGVVTHA VVTVPAYFND AQRQATKDAG TIAGLNVMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLTID NGVFEVVATN GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKDNRAVQKL RREVEKAKRA LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKSDIDE IVLVGGSTRI PKIQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET VGGVMTKLIP RNTVVPTKKS QIFSTASDNQ PTVTIKVYEG ERPLTKDNHL LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEKF AEEDKCLKER IDTRNELESY AYSLKNQIGD KEKLGKGLSS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AELEHHHHHH</p>		

Storage & Stability: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. **Avoid repeated freezing and thawing cycles.**



15% SDS-PAGE (3 μ g)

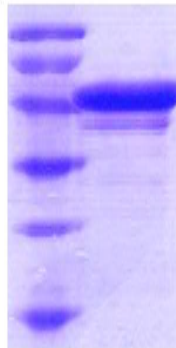
(kDa)

150

70

35

25



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