

AR51036PU-N

Human HSPA5 / GRP78 (19-654, His-tag) - Purified

Alternate names:

78 kDa glucose-regulated protein, BiP, Endoplasmic reticulum luminal Ca(2+)-binding protein grp78, Heat shock 70 kDa protein 5, Immunoglobulin heavy chain-binding protein

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

HSPA5 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

Uniprot ID:

[P11021](#)

NCBI:

[NP_005338](#)

GeneID:

[3309](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.

Description:
AA Sequence:

```
MGSSHHHHH SGLVPRGSH MGSEEDKKE DVGTVVGIDL GTTYSCVGVF KNGRVEIIAN
DQGNRITPSY VAFTPEGERL IGDAAKNQLT SNPENTVFDA KRLIGRTWND PSVQQDIKFL
PFKVVEKKT PYIQVDIGGG QTKTFAPEEI SAMVLTKMKE TAEAYLGKKV THAVVTVPAY
FNDAQRQATK DAGTIAGLNV MRIINEPTAA AIAYGLDKRE GEKNILVFDL GGGTFDVSLL
TIDNGVFEVV ATNGDTHLGG EDFDQVRMEH FIKLYKKKTG KDVRKDNRAV QKLRRVEKA
KRALSSQHQA RIEIESFYEG EDFSETLTRA KFEELNMDLF RSTMKPQKV LEDSDLKKSD
IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS RGINPDEAVA YGAAVQAGVL SGDQDTGDLV
LLDVCPLTLG IETVGGVMTK LIPRNTVVPT KKSQIFSTAS DNQPTVTIKV YEGERPLTKD
NHLLGTFDLT GIPPAPRGVP QIEVTFEIDV NGILRVTAED KGTGNKNKIT ITNDQNRLTP
EEIERMVNDA EKFAEEDKKL KERIDTRNEL ESYAYSLKNQ IGDKEKLGK LSSDKETME
KAVEEKIEWL ESHQDADIED FKAKKKELEE IVQPIISKLY GSAGPPPTGE EDTAEKDEL
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Molecular weight: 72.9 kDa (659aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Wang Q, Shu R, et al. (2012). Int J Oncol. 41(2):652-60. Sokolowska I, Woods AG, et al. (2012). FEBS J. 279(14):2579-94.

Pictures:

