

Recombinant human GRP78/HSPA5 protein

Catalog Number: ATGP2212

PRODUCT INFORMATION

Expression system

E.coli

Domain

19-654aa

UniProt No.

P11021

NCBI Accession No.

NP_005338.1

Alternative Names

Heat shock protein family A member 5, Heat shock 70kD protein 5, HSP70 family protein 5, Glucose-regulated protein 78kD, Binding-immunoglobulin protein, BiP, Endoplasmic reticulum chaperone BiP, Glucose-regulated protein 78kDa, Immunoglobulin heavy chain-binding protein

PRODUCT SPECIFICATION

Molecular Weight

72.9 kDa (659aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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 a key role in monitoring protein transport through the cell. Recombinant human HSPA5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

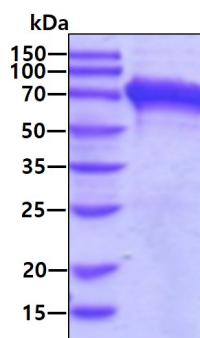
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GGGTFDVSLL TIDNGVFEVV ATNGDTHLGG EDFDQVRMEH FIKLYKKKTG KDVRKDNRAV QKLRRVEKA KRALSSQHQA
RIIESFYEG EDFSETLTRA KFEELNMDLF RSTMKPVQKV LEDSDLKSD IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS
RGINPDEAVA YGAAVQAGVL SGDQDTGDLV LLDVCPLTLG IETVGGVMTK LIPRNTVVPT KKSQIFSTAS DNQPTVTIKV
YEGERPLTKD NHLLGTFDLT GIPPAPRGVP QIEVTFEIDV NGILRVTAED KGTGNKNKIT ITNDQNRLLTP EEIERMVNDA
EKFAEEDKKL KERIDTRNEL ESYAYSLKNQ IGDKEKLGK LSSDKETME KAVEEKIEWL ESHQDADIED FKAKKKELEE
IVQPIISKLY GSAGPPPTGE EDTAEKDEL

General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.