

Recombinant mouse GRP78/HSPA5 protein

Catalog Number: ATGP3685

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-655aa

UniProt No.

P20029

NCBI Accession No.

NP_071705

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) Confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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, also known as 78 kDa glucose-regulated protein precursor, 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 mouse HSPA5 protein, fused to His-tag at N-

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terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

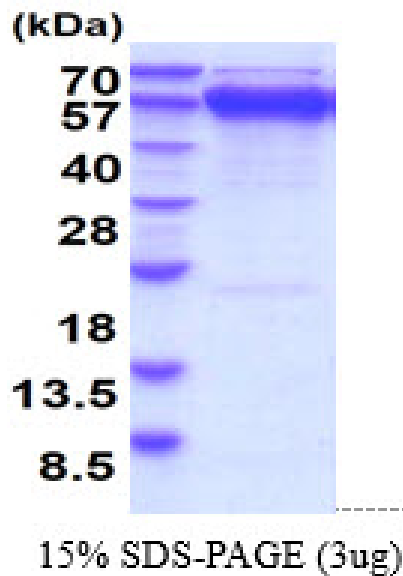
<MGSSHHHHHH SSSLVPRGSH MGS>EEEDKKE DVGTVVGIDL GTTYSCVGVF KNGRVEIIAN DQGNRITPSY
VAFTPEGERL IGDAAKNQLT SNPENTVFDA KRLIGRTWND PSVQQDIKFL PFKVVEKTK PYIQVDIGGG QTKTFAPEEI
SAMVLTKMKE TAEAYLGKKV THAVVTPAY FNDAQRQATK DAGTIAGLNV MRIINEPTAA AIAYGLDKRE GEKNILVFDL
GGGTFDVSLL TIDNGVFEVV ATNGDTHLGG EDFDQRVMEH FIKLYKKKTG KDVRKDNRAV QKLRREVEKA KRALSSQHQA
RIIESFFEG EDFSETLTRA KFEELNMDLF RSTMKPVQKV LEDSDLKKS IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS
RGINPDEAVA YGAAVQAGVL SGDQDTGDLV LLDVCPLTLG IETVGGVMTK LIPRNTVVPT KKSQIFSTAS DNQPTVTIKV
YEGERPLTKD NHLLGTFDLT GIPPAPRGVP QIEVTFEIDV NGILRVTAED KGTGNKNKIT ITNDQNRLTP EEIERMVNDA
EKFAEEDKKL KERIDTRNEL ESYAYSLKNQ IGDKEKLGK LSEDKETME KAVEEKIEWL ESHQDADIED FKAKKKELEE
IVQPIISKLY GSGGPPPTGE EDTSEKDEL

General References

Wang Q., et al. (2012). *Int J Oncol.* 41(2):652-60.
Sokolowska I., 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.