

Recombinant human BAG3 protein

Catalog Number: ATGP0440

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-575aa

UniProt No.

O95817

NCBI Accession No.

NP_004272.2

Alternative Names

BAG family molecular chaperone regulator 3, BIS, CAIR-1, BAG family molecular chaperone regulator 3 BAG 3, Bcl 2 binding protein, BCL2 associated athanogene 3, BCL2 binding athanogene 3, Docking protein CAIR 1.

PRODUCT SPECIFICATION

Molecular Weight

63.7 kDa (595aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM EDTA, 0.1mM PMSF, 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

BAG3 was reported initially as a protein-refolding cochaperone of the bcl2 binding protein BAG family and as upregulated in response to persistent stress of cellular calcium balance dysregulation. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. Also, it has been shown to diminish stress-induced apoptosis. Recombinant human BAG3,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MSAATHSPMM QVASGNGDRD PLPPGWEIKI DPQTGWPFV DHNSRTTTWN DPRVPSEGPK ETPSSANGPS REGSRLPPAR EGHPVYQQLR PGIPIPV LH EGAENRQVHP FHVYPQPGMQ RFRTEAAAAA PQRSQSPLRG MPETTQPKQ CGQVAAAAA QPPASHGPER SQSPAASDCS SSSSSASLPS SGRSSLGSHQ LPRGYISIPV IHEQNVTRPA AQPSFHQAQK THYPAQGEY QTHQPVYHKI QGDDWEPRPL RAASPFSSV QGASSREGSP ARSSTPLHSP SPIRVHTVVD RPQQPMTHRE TAPVSQPENK PESKPGVGP ELPPGHIPIQ VIRKEVDSKP VSQKPPPSE KVEVKVPPAP VPCPPSPGP SAVPSSPKSV ATEERAAPST APAEATPPKP GEAEAPPKHP GVLKVEAILE KVQGLEQAVD NFEGKKTDDK YLMIEEYLTKE LLLALDSVDP EGRADVRQAR RDGVRKVQTI LEKLEQKVID VPGVQVYEL QPSNLEADQP LQAIMEMGAV AADKGGKKNAG NAEDPHTETQ QPEATAAATS NPSSMTDTPG NPAAP

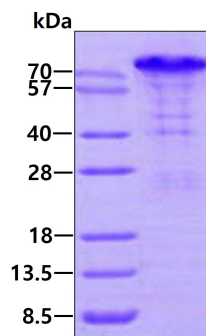
General References

Virador VM., et al. (2009) PLoS One. 4(4):e5136.

Kyratsous CA., et al. (2008) Proc Natl Acad Sci U S A. 105(52):20912-7.

DATA

SDS-PAGE



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