

# Recombinant Human BCL2-associated Athanogene 3, His tagged

**Cat. No.** BAG3-1824H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant human BAG3, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Species

Human

### Source

*E. coli*

### 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.

### Sequences of amino acids

MGSSHHHHHH SGLVPRGSH MSAATHSPMM QVASNGDRD PLPPGWEIKI  
 DPQTGWPFV DHNSRTTWN DPRVPSEGP ETPSSANGPS REGSRLPPAR  
 EGHPVYPQLR PGIPIVLH EGAENRQVHP FHVYPQGMQ RFRTEAAAAA  
 PQRSQSPLRG MPETTQPKQ CGQVAAAAA QPPASHGPER SQSPAASDCS  
 SSSSASLPS SGRSSLGSHQ LPRGYISIPV IHEQNVTRPA AQPSFHQAQK  
 THYPAQQGEY QTHQPVYHKI QGDDWEPRPL RAASFRSSV QGASSREGSP  
 ARSSTPLHSP SPIRVHTVVD RPQQPMTRE TAPVSQPENK PESKPGVGP  
 ELPPGHIPIQ VIRKEVDSKP VSQKPPPSE KVEVKVPPAP VPCPPSPGP

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SAVPSSPKSV ATEERAAPST APAEATPPKP GEAEAPPKHP GVLKVEAILE  
 KVQGLEQAVD NFEGKKTDDK YLMIEEYLTK ELLALDSVDP EGRADVRQAR  
 RDGVRKVQTI LEKLEQKAID VPGQVQVYEL QPSNLEADQP LQAIMEMGAV  
 AADKGKKNAG NAEDPHTETQ QPEATAAATS NPSSMTDTPG NPAAP

<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM EDTA, 0.1mM PMSF, 10% glycerol
<b>Molecular Weight</b>	63.7 kDa (595aa)
<b>Purity</b>	> 90% by SDS - PAGE
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)
<b>Storage</b>	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.

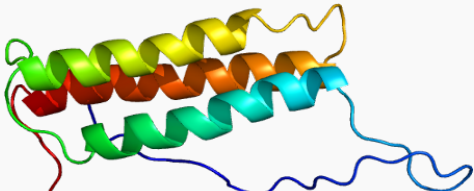
## GENE INFORMATION

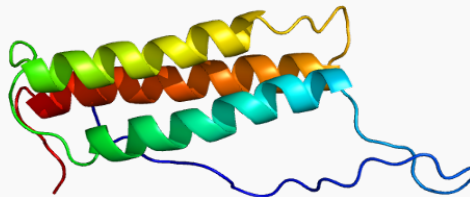
<b>Gene Name</b>	<a href="#">BAG3 BCL2-associated athanogene 3 [ Homo sapiens ]</a>
<b>Synonyms</b>	BAG3; BAG-3; BIS; CAIR-1; MGC104307; MGC104307; BCL2-associated athanogene 3; BCL2-associated athanogene 3; Bcl-2-binding protein; docking protein CAIR-1; OTTHUMP00000020599; BAG-family molecular chaperone regulator-3; Docking protein CAIR-1.
<b>Gene ID</b>	<a href="#">9531</a>
<b>mRNA Refseq</b>	<a href="#">NM_004281</a>
<b>Protein Refseq</b>	<a href="#">NP_004272</a>

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<b>MIM</b>	603883
<b>UniProt ID</b>	O95817
<b>Chromosome Location</b>	10q25.2-q26.2
<b>Function</b>	protein binding
<b>PDB rendering based on 1uk5. Available structures 1uk5</b>	



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