9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

BAG3 Human

BCL2-Associated Athanogene 3 Human Recombinant
RCP0167

Product Overview

Name	BAG3 Human
Description	
BCL2-Associated Athanogene 3 Human Recombinant	
Accession (Primary)	O95817
Synonyms	
BIS, CAIR-1, BAG-3, BAG Family Molecular Chaperone Regulator 3, Bcl-2-associated athanogene 3, Bcl-2-binding protein Bis, Docking protein CAIR-1, BAG3, MGC104307.	
Introduction	
BAG3 Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release. BAG3 has anti-apoptotic activity. BAG proteins participate with Hip for their binding to Hsc70/Hsp70 ATPase domain and encourage substrate release. BAG proteins have about 45 amino acid BAG domain close to the C terminus however they differ noticeably in their N-terminal regions. BAG3 includes a WW domain in the N-terminal region and a BAG domain in the C-terminal region. The BAG domains of BAG1, BAG2, and BAG3 interact particularly with the Hsc70 ATPase domain in vitro and in mammalian cells. They bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. BAG3 plays a role 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. BAG3 has been shown to diminish stress-induced apoptosis.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The BAG3 protein contains 20mM Tris buffer pH-8, 1mM EDTA, 10% glycerol and 0.1mM PMSF.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90% as determined by SDS-PAGE.	

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Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MSAATHSPMM QVASGNGDRD PLPPGWEIKI DPQTGWPFFV DHNSRTTTWN DPRVPSEGPK ETPSSANGPS REGSRLPPAR EGHPVYPQLR PGYIPIPVLH EGAENRQVHP FHVYPQPGMQ RFRTEAAAAA PQRSQSPLRG MPETTQPDKQ CGQVAAAAAA QPPASHGPER SQSPAASDCS SSSSSASLPS SGRSSLGSHQ LPRGYISIPV IHEQNVTRPA AQPSFHQAQK THYPAQQGEY QTHQPVYHKI QGDDWEPRPL RAASPFRSSV QGASSREGSP ARSSTPLHSP SPIRVHTVVD RPQQPMTHRE TAPVSQPENK PESKPGPVGP ELPPGHIPIQ VIRKEVDSKP VSQKPPPPSE KVEVKVPPAP VPCPPPSPGP SAVPSSPKSV ATEERAAPST APAEATPPKP GEAEAPPKHP GVLKVEAILE KVQGLEQAVD NFEGKKTDKK YLMIEEYLTK ELLALDSVDP EGRADVRQAR RDGVRKVQTI LEKLEQKAID VPGQVQVYEL QPSNLEADQP LQAIMEMGAV AADKGKKNAG NAEDPHTETQ QPEATAAATS NPSSMTDTPG NPAAP.

Precautions

BAG3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O95817)