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Product Information

BAG1 (72-end), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5165**
Storage Temperature –70 °C

Synonym: RAP46

Product Description

BAG1 (also known as BCL2-associated athanogene) is a membrane protein rich in glutamic acid residues that binds to BCL2 and blocks apoptosis or programmed cell death.[1] The BAG1-BCL2 complex enhances the antiapoptotic effects of BCL2 and represents a link between growth factor receptors and antiapoptotic mechanisms.[2] Overexpression of BAG1 in 3T3 fibroblasts prevents apoptosis in the presence of low serum. BAG1 has also been shown to interact with activated glucocorticoid, androgen, estrogen, and progesterone receptors. Binding to these receptors by BAG1 is dependent on receptor activation.

Recombinant human BAG1 (72-end) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_004323. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~66 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)

References

1. Tang, S.C. BAG-1, an anti-apoptotic tumour marker. IUBMB Life, **53(2)**, 99–105 (2003).
2. Clemo, N.K. et al., The role of the retinoblastoma protein (Rb) in the nuclear localization of BAG-1: implications for colorectal tumour cell survival. Biochem. Soc. Trans., **33(Pt 4)**, 676–8 (2005).

DKF,MAM 10/11-1