

BAG-3 Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P71848
Synonyms:	Bag3; Bis; MNCb-2243BAG family molecular chaperone regulator 3; BAG-3; Bcl-2-associated athanogene 3; Bcl-2-binding protein Bis
Species:	Mouse
Source:	P. pastoris
Accession:	Q9JLV1 (2S-577P)
Gene ID:	29810
Molecular Weight:	Approximately 63.7 kDa

PROPERTIES

AA Sequence

S A A T Q S P M M Q	M A S G N G A S D R	D P L P P G W E I K	I D P Q T G W P F F
V D H N S R T T T W	N D P R V P P E G P	K D T A S S A N G P	S R D G S R L L P I
R E G H P I Y P Q L	R P G Y I P I P V L	H E G S E N R Q P H	L F H A Y S Q P G V
Q R F R T E A A A A	T P Q R S Q S P L R	G G M T E A A Q T D	K Q C G Q M P A T A
T T A A A Q P P T A	H G P E R S Q S P A	A S D C S S S S S S	A S L P S S G R S S
L G S H Q L P R G Y	I P I P V I H E Q N	I T R P A A Q P S F	H Q A Q K T H Y P A
Q Q G E Y Q P Q Q P	V Y H K I Q G D D W	E P R P L R A A S P	F R S P V R G A S S
R E G S P A R S G T	P V H C P S P I R V	H T V V D R P Q P M	T H R E P P P V T Q
P E N K P E S K P G	P A G P D L P P G H	I P I Q V I R R E A	D S K P V S Q K S P
P P A E K V E V K V	S S A P I P C P S P	S P A P S A V P S P	P K N V A A E Q K A
A P S P A P A E P A	A P K S G E A E T P	P K H P G V L K V E	A I L E K V Q G L E
Q A V D S F E G K K	T D K K Y L M I E E	Y L T K E L L A L D	S V D P E G R A D V
R Q A R R D G V R K	V Q T I L E K L E Q	K A I D V P G Q V Q	V Y E L Q P S N L E
A E Q P L Q E I M G	A V V A D K D K K G	P E N K D P Q T E S	Q Q L E A K A A T P
P N P S N P A D S A	G N L V A P		

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The BAG-3 protein functions as a co-chaperone alongside HSP70 and HSC70 chaperone proteins, playing a pivotal role as a nucleotide-exchange factor (NEF). Its NEF activity facilitates the release of ADP from HSP70 and HSC70, triggering the liberation of client/substrate proteins. The nucleotide release is mediated through its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70, while substrate release is facilitated by its interaction with the substrate-binding domain (SBD) of HSPA8/HSC70. Beyond its role in chaperone activity, BAG-3 exhibits anti-apoptotic activity and is involved in the nucleocytoplasmic transport of HSF1. It binds to the ATPase domain of HSP70/HSC70 chaperones, interacts with BCL2, phospholipase C-gamma proteins, and DNAJB6. Furthermore, BAG-3 engages in interactions with HSF1, HSPA8, HSPA1A, and HSPA1B, and binds to SYNPO2 via its WW domain 1 and SYNPO2's PPPY motif, underscoring its versatile involvement in cellular processes and protein-protein interactions.

Caution: Product has not been fully validated for medical applications. For research use only.

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