Baculoviral IAP Repeat-Containing Protein 5 (BIRC5) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Baculoviral IAP repeat-containing protein 5 (BIRC5), Recombinant Protein
Full Product Name	Recombinant Bovine Baculoviral IAP repeat-containing protein 5 (BIRC5)
Product Gene Name	BIRC5 recombinant protein
Product Synonym Gene Name	BIRC5
Sequence	MGAQSLPPAW QLYLKDHRVS TFKNWPFLEG CACTPERMAA AGFIHCPTEN EPDLAQCFFC FKELEGWEPD DDPIEEHKKH SSGCAFLSVK KQFEELTLSE FLKLDKERTK NKIAKETNNK QKEFEETAKK VRCAIEQLAA LE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	16,341 Da
Sequence Positions	1-142, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6J1J1
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BIRC5 recombinant protein	This gene is a member of the inhibitor of apoptosis (IAP) gene family, which encode negative regulatory proteins that prevent apoptotic cell death. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but this gene encodes proteins with only a single BIR domain. The encoded proteins also lack a C-terminus RING finger domain. Gene expression is high during fetal development and in most tumors yet low in adult tissues. Antisense transcripts are involved in the regulation of this gene s expression. At least four transcript variants encoding distinct isoforms have been found for this gene, but the full-length natures of only three of them have been determined.
Other Notes	Small volumes of BIRC5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BIRC5 purchase	MBS1344887 is a recombinant protein targeting BIRC5. Also known as Recombinant Bovine Baculoviral IAP repeat-containing protein 5 (BIRC5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BIRC5. It may not necessarily be applicable to this product.

NCBI GI #	87196503
NCBI GeneID	414925

NCBI Accession #	NP_001001855.2
UniProt Primary Accession #	Q6J1J1
UniProt Secondary Accession #	Q32LI0
UniProt Related Accession #	Q6J1J1
GenBank Nucleotide #	NM_001001855.3
NCBI Official Full Name	baculoviral IAP repeat-containing protein 5
NCBI Official Synonym Full Names	baculoviral IAP repeat containing 5
NCBI Official Symbol	BIRC5
UniProt Protein Name	Baculoviral IAP repeat-containing protein 5
UniProt Synonym Protein Names	Apoptosis inhibitor survivin
Protein Family	Baculoviral IAP repeat-containing protein
UniProt Gene Name	BIRC5
NCBI Protein Information	baculoviral IAP repeat-containing protein 5
UniProt Comments for BIRC5	Multitasking protein that has dual roles in promoting cell proliferation and preventing apoptosis. Component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis. Acts as an important regulator of the localization of this complex; directs CPC movement to different locations from the inner centromere during prometaphase to midbody during cytokinesis and participates in the organization of the center spindle by associating with polymerized microtubules. Involved in the recruitment of CPC to centromeres during early mitosis via association with histone H3 phosphorylated at 'Thr-3' (H3pT3) during mitosis. The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. May counteract a default induction of apoptosis in G2/M phase. The acetylated form represses STAT3 transactivation of target gene promoters. May play a role in neoplasia. Inhibitor of CASP3 and CASP7.
Research Articles on BIRC5	**1.** Survivin is important for optimal development of bovine blastocysts and confirm that survivin expression suppresses apoptosis of pre-implantation embryos.
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