

## Recombinant Human BIRC5 Protein (M1-D142), His tagged

Cat. No. BIRC5-0717H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human 6His-TEV-(GG)-survivin(BIRC5) (M1-D142 end) Protein was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** M1-D142

#### Description

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. Essential for the maintenance of mitochondrial integrity and function. Isoform 2 and isoform 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its

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anti-apoptotic effects when compared with the displayed wild-type isoform.

**Form**

Liquid

**Endotoxin**

< 0.01 EU per µg of the protein

**Stability**

Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.

**Storage**

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer**

Supplied as sterile

**Shipping**

It is shipped out with blue ice.

## GENE INFORMATION

**Gene Name**

[BIRC5 baculoviral IAP repeat containing 5 \[ Homo sapiens \(human\) \]](#)

**Official Symbol**

[BIRC5](#)

**Synonyms**

BIRC5; baculoviral IAP repeat containing 5; API4, apoptosis inhibitor 4, baculoviral IAP repeat containing 5; baculoviral IAP repeat-containing protein 5; EPR 1; survivin; survivin variant 3 alpha; apoptosis inhibitor 4; apoptosis inhibitor survivin; API4; EPR-1;

**Gene ID**

[332](#)

**mRNA Refseq**

[NM\\_001012270](#)

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<b>Protein Refseq</b>	NP_001012270
<b>MIM</b>	603352
<b>UniProt ID</b>	O15392

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