



**Catalog Number:** PR27261

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Amino Acid Sequence:** MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG  
NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE  
EVDEMIREAD IDGDGQVNYE EfvqmmTAKG SHMGAPTLPP AWQPFLKDHR ISTFKNWPFL  
EGCACTPERM AEAGFIHCPT ENEPDLAQCF FCFKELEGWE PDDDPIEEEHK KHSSGCAFLS  
VKKQFEELTL GEFLKLDREK AKNKIAKETN NKKKEFEETA KKVRRRAIEQL AAMD.

**Description/Molecular Mass:** Survivin is part of the of the inhibitor of apoptosis (IAP) family, which encodes negative regulatory proteins that prevent apoptotic cell death. Members of the IAP family include multiple baculovirus IAP repeat (BIR) domains, but Survivin has only a single BIR domain. Survivin is an inhibitor of caspase activation therefore leading to negative regulation of apoptosis. BIRC5 is expressed in Merkel cell carcinoma. BIRC5 polymorphism causes survivin expression, thus contributing to the genetic susceptibility to lung cancer. BIRC5 expression in large cell lung cancer is substantially higher than in normal tissue cells. Survivin mRNA is up-regulated in tumors. Apoptotic response of infected intestinal epithelial cells is suppressed by *C. parvum* via upregulation of BIRC5, favoring parasite infection. Up-regulation of Survivin is associated with breast carcinomas. BIRC5 increases the activity of an oncolytic adenovirus in the presence of low-dose radiotherapy. ER-breast cancer cells become dependent on Notch-survivin signaling for their maintenance, *in vivo*. Survivin mRNA positive cases are related with bladder tumour recurrence elevated expression of survivin might play an important role of development in nasal polyps.

**Purity:** Survivin Human Recombinant fused to a 152 a.a. N-terminal CaM-Tag produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 294 amino acids (1-142 a.a.) and having a molecular mass of 33 kDa.  
Greater than 90.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** The BIRC5 solution contains 20mM Tris-HCl pH-7.5 & 0.1M NaCl.

**Storage:** 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.

### FOR RESEARCH USE ONLY

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