

# Recombinant Full Length Human BIRC5 Protein, His&TEV tagged

Cat. No. BIRC5-04HFL    Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Full-length human BIRC5 cDNA (141 aa, Isoform-I) was constructed with codon optimization gene synthesis and expressed with a human alpha Fetal Protein N-terminal (AFPn) -His-TEV cleavage site Tag (217aa) fusion at its N-terminal. It was expressed in E. coli as inclusion bodies.

**Species** Human

**Source** E.coli

**ProteinLength** 1-142 aa

**Description** 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. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

**Tag** His&TEV

**Form** Sterile-filtered

**AA Sequence** MTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKP

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TGDEQSSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTP  
 ASIPLFQVPEPVTSCAYEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCC  
 KAENAVECFQTKAATVTKELRESSGGSHHHHHHGSENLYFQGGEGAPTLPPAWQP  
 FLKDHRISTFKNWPFLGCACTPERMAEAGFIHCPTENEPDLAQCFKKELEGWE  
 PDDDPIEEHKKHSSGCAFLSVKKQFEELTLGEFLKLDRETERAKNKIAKETNNKKKEFEE  
 TAEKVRRAIEQLAAMD

**Purity** > 90% by SDS-PAGE

**Applications**

1. May be used for in vitro BIRC5 mediated apoptosis pathway regulation study for various cancer cells by intracellular delivery of this protein with protein delivery reagent such as ProFectin reagent kit.
2. May be used for mapping protein-protein interaction.
3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. May serve as auto-antibodies detection reagent, which will react with sera of some auto-immuno-diseases"s or cancer patients.
5. As Immunogen for specific antibody production.

**Storage** In Liquid. Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

**Storage Buffer** 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.

**Concentration** 0.25 mg/mL

**Reference**

1. Ambrosini G, et al., A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma. Nat. Med. 3 (8), 917-921 (1997)
2. Tamm I, et al., IAP-family protein survivin inhibits caspase activity and apoptosis

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induced by Fas (CD95), Bax, caspases, and anticancer drugs. *Cancer Res.* 58 (23), 5315-5320 (1998)

3. Jovic, M., et al., Correlation of local and systemic expression of survivin with histopathological parameters of cutaneous melanoma. *Vojnosanit Pregl* 73 (11), 1022-1029 (2016)

## GENE INFORMATION

<b>Gene Name</b>	BIRC5 baculoviral IAP repeat containing 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	BIRC5
<b>Synonyms</b>	BIRC5; baculoviral IAP repeat containing 5; API4; EPR-1; baculoviral IAP repeat-containing protein 5; apoptosis inhibitor 4; apoptosis inhibitor survivin
<b>Gene ID</b>	332
<b>mRNA Refseq</b>	NM_001168
<b>Protein Refseq</b>	NP_001159
<b>MIM</b>	603352
<b>UniProt ID</b>	A0A0B4J1S3

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