

Recombinant Human Baculoviral IAP Repeat Containing 5, His-tagged

Cat. No. BIRC5-4944H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BIRC5 containing N-terminal His tag was expressed in E. coli, 18.6 kDa.
Species	Human
Source	E.coli
Description	Survivin, a member of the inhibitor of apoptosis (IAP) family, is also called baculoviral inhibitor of apoptosis repeat-containing 5 or BIRC5 and in humans is encoded by the BIRC5 gene. The survivin protein functions to inhibit caspase activation, thereby leading to negative regulation of apoptosis. Disruption of survivin induction pathways leads to an increase in apoptosis and decrease in tumour growth. Survivin is highly expressed in most human tumours and fetal tissue, but is completely absent in terminally differentiated cells, making survivin an ideal target for studying cancer therapy.
Molecular Weight	18.6 kDa
Form	Sterile filtered and lyophilized with no additives.
Appearance	Lyophilized protein
Sequence	MGSSHHHHHHSSGLVPRGSHMGAPTLPPAWQPFLKDH RISTFKNWPFLEGCACT PERMAEAGFIHCPTENEPDLAQCF FCFKELEGWEPDDDDPIEEHKKHSSGCAFLSVK

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	KQFEELTLG EFLKLD RERAKN KIAKETNNKKKEFEETVKKVRRRAIEQLAAM D
Endotoxin Level	<0.1 ng/μg
Reconstitution	Centrifuge the vial prior to opening. Reconstitute to a concentration of 0.1-1.0 mg/ml in PBS.
Purity	>90 % as determined by SDS-PAGE.
Storage	Aliquot and Store at –80°C. Stable for 6-12 months. Avoid freeze/thaw cycles.
Pathways	Apoptosis; Aurora A signaling; Aurora B signaling; Cell Cycle, Mitotic; Colorectal cancer; DNA Replication; FOXM1 transcription factor network; IL-3 Signaling Pathway; M Phase; Mitotic M-M/G1 phases; Pathways in cancer; Validated targets of C-MYC transcriptional activation

GENE INFORMATION

Gene Name	BIRC5 baculoviral IAP repeat-containing 5 [Homo sapiens]
Official Symbol	BIRC5
Synonyms	BIRC5; baculoviral IAP repeat containing 5; API4; EPR-1; baculoviral IAP repeat-containing protein 5; apoptosis inhibitor 4; survivin variant 3 alpha; apoptosis inhibitor survivin; Apoptosis inhibitor survivin; Apoptosis inhibitor 4; IAP4
Gene ID	332
mRNA Refseq	NM_001012270
Protein Refseq	NP_001012270

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MIM	603352
UniProt ID	O15392
Chromosome Location	17q25
Function	Ran GTPase binding; caspase inhibitor activity; chaperone binding; cobalt ion binding; cofactor binding; cysteine-type endopeptidase inhibitor activity; enzyme binding; identical protein binding; metal ion binding; microtubule binding; peptidase inhibitor activity; protein binding; protein heterodimerization activity; tubulin binding; zinc ion binding
PDB rendering based on 1e31.	