

BIRC5 Protein, Human

Cat. No.:	HY-P7645
Synonyms:	rHuBIRC5; Baculoviral IAP Repeat-Containing Protein 5; Apoptosis Inhibitor 4; BIRC5; Survivin; BIRC5
Species:	Human
Source:	E. coli
Accession:	O15392 (M1-D142)
Gene ID:	332
Molecular Weight:	16-18 kDa

PROPERTIES

AA Sequence	M G A P T L P P A W Q P F L K D H R I S T F K N W P F L E G C A C T P E R M A E A G F I H C P T E N E P D L A Q C F F C F K E L E G W E P D D D P I E E H K K H S S G C A F L S V K K Q F E E L T L G E F L K L D R E R A K N K I A K E T N N K K K E F E E T A K K V R R A I E Q L A A M D
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris, 0.1M NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>BIRC5 expression is strongly upregulated in neuroblastoma compared with normal tissues, adult malignancies, and non-malignant fetal adrenal neuroblasts^[1].</p> <p>IRC5/Survivin enhances aerobic glycolysis and drug resistance by altered regulation of the mitochondrial fusion/fission machinery^[2].</p>
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REFERENCES

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- [1]. Fieke Lamers, et al. Knockdown of survivin (BIRC5) causes apoptosis in neuroblastoma via mitotic catastrophe. *Endocr Relat Cancer*. 2011 Oct 27;18(6):657-68.
- [2]. J Hagenbuchner, et al. BIRC5/Survivin enhances aerobic glycolysis and drug resistance by altered regulation of the mitochondrial fusion/fission machinery. *Oncogene*. 2013 Oct;32(40):4748-57.
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Caution: Product has not been fully validated for medical applications. For research use only.

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