
Product Data Sheet

Product Name: BIRC5 Human
 Cat. No.: GP22882
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BIRC-5; Baculoviral IAP repeat-containing protein 5; API4; EPR-1; Apoptosis inhibitor survivin; Apoptosis inhibitor 4; BIRC5; IAP4; Survivin.		
Amino Acid Sequence	MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRS L GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAKG SHMGAPTLPP AWQPFLKDHR ISTFKNWPFL EGCACTPERM AEAGFIHCPT ENEPDLAQCF FCFKELEGWE PDDDPIEEHK KHSSGCAFLS VKKQFEELTL GEFLKLD RER AKNKIAKETN NKKKEFEETA KKVRRRAIEQL AAMD.		
Formulation	The BIRC5 solution contains 20mM Tris-HCl pH-7.5 & 0.1M NaCl.		

Introduction

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 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

Caution: Product has not been fully validated for medical applications. For research use only.

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of development in nasal polyps.

Stability

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.

Background

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.

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