9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

BIRC5 Human

Baculoviral IAP Repeat-Containing 5 Human Recombinant
RCP0219

Product Overview

Name	BIRC5 Human

Description

Baculoviral IAP Repeat-Containing 5 Human Recombinant

Accession (Primary)	O15392

Synonyms

BIRC-5, Baculoviral IAP repeat-containing protein 5, API4, EPR-1, Apoptosis inhibitor survivin, Apoptosis inhibitor 4, BIRC5, IAP4, Survivin.

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 of development in nasal polyps.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

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

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.

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Purity

Greater than 90.0% as determined by SDS-PAGE.

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 PDDDPIEEHK KHSSGCAFLS VKKQFEELTL GEFLKLDRER AKNKIAKETN NKKKEFEETA KKVRRAIEQL AAMD.

Precautions

BIRC5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O15392)