



Product Datasheet

Product Name	Survivin Human Recombinant
Cata No	CB501470
Source	<i>Escherichia Coli.</i>
Synonyms	BIRC-5, Baculoviral IAP repeat-containing protein 5, API4, EPR-1, Apoptosis inhibitor survivin, Apoptosis inhibitor 4, BIRC5, IAP4, Survivin.

Description

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 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.

Survivin Human Recombinant fused to N-terminal CaM-Tag produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 394 amino acids and having a molecular mass of 33

kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Formulation

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

Stability

Survivin although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MADQLTEEQI AEFKEAFSLF DKDGDGTITT
KELGTVMRS L GQNPTEAELQ DMINEVDADG
NGTIDFPEFL TMMARKMKDT DSEEEIREAF
RVFDKDGNGY ISAAELRHVM TNLGEKLTDE
EVDEMIREAD IDGDGQVNYE EFVQMMTAKG
SHMGAPTLPP AWQPFLK DHR ISTFKNWPFL
EGCACTPERM AEAGFIHCPT ENPDLAQCF
FCFKELEGWE PDDDPIEEHK KHSSGCAFLS
VKKQFEELTL GEFLKDRER AKNKIAKETN
NKKKEFEETA KKVRRRAIEQL AAMD.

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