



Product Datasheet

Product Name	Baculoviral IAP Repeat-Containing 7 Human Recombinant
Cata No	CB501469
Source	<i>Escherichia Coli</i> .
Synonyms	Baculoviral IAP repeat-containing protein 7, KIAP, MLIAP, RNF50, ML-IAP, LIVIN, Kidney inhibitor of apoptosis protein, Melanoma inhibitor of apoptosis protein, RING finger protein 50, BIRC7.

Description

BIRC7 is a part of the inhibitor of apoptosis protein (IAP) family and contains a single copy of a baculovirus IAP repeat (BIR) as well as a RING-type zinc finger domain. The BIR domain is necessary for inhibitory activity & cooperates with caspases, while the RING finger domain sometimes increases anti-apoptotic activity but doesn't inhibit apoptosis by itself. 2 transcript variants encoding diverse isoforms have been found for this gene. The 2 isoforms have dissimilar antiapoptotic characteristics, with isoform α protecting cells from apoptosis induced by staurosporine and isoform β defending cells from apoptosis induced by etoposide.

BIRC7 has direct contact with several caspases together with caspase-3, caspase-7, & caspase -9. BIRC7 inhibits the activation of caspase-9 induced by Apaf-1, cytochrome c, and dATP.

BIRC7 Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 318 amino acids and having a molecular mass of 34 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 BIRC7 solution contains 20mM Tris pH-8, 1mM DTT, 0.1M NaCl, 2mM EDTA and 20% glycerol.

Stability

BIRC7 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

MGSSHHHHHH SSGLVPRGSH MGPKDSAKCL
HRGPQPSHWA AGDGPTQERC GPRSLGSPVL
GLDTCRAWDH VDGQILGQLR PLTEEEEEEG
AGATLSRGPA FPGMGSEELRLASFYDWPLT
AEVPPELLAA AGFFHTGHQD KVRCCFFCYGG
LQSWKRGDDP WTEHAKWFPS CQFLLRSKGR
DFVHSVQETH SLLGSDWPW EEPEDAAPVA
PSVPASGYPE LPTPRREVQS ESAQEPGGVS
PAEAQRAWV LEPPGARDVE AQLRRLQEER
TCKVCLDRAV SIVFVPCGHL VCAECAPGLQ
LCPICRAPVR SRVRTFLS