
Product Data Sheet

Product Name: BIRC7 Human
 Cat. No.: GP22883
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGPKDSAKCL HRGPQPSHWA AGDGPTQERC GPRSLGSPVL GLDTCRAWDH VDGQILGQLR PLTEEEEEEG AGATLSRGPA FPGMGSEELRLASFYDWPLT AEVPELLAA AGFFHTGHQD KVRCCFCYGG LQSWKRGDDP WTEHAKWFPS CQFLLRKSKGR DVFHVSQETH SQLLGSWDPW EEPEDAAPVA PSVPASGYPE LTPRREVQS ESAQEPGGVS PAEAQRAWVW LEPPGARDVE AQLRRLQEER TCKVCLDRAV SIVFVPCGHL VCAECAPGLQ LCPICRAPVR SRVRTFLS.		
Formulation	The BIRC7 solution contains 20mM Tris pH-8, 1mM DTT, 0.1M NaCl, 2mM EDTA and 20% glycerol.		

Introduction

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 a protecting cells from apoptosis induced by staurosporine and isoform b defending cells from apoptosis. 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.

Stability

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

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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

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.

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