
Product Data Sheet

Product Name: BIRC7 Human, (1-280 a.a.)

Cat. No.: GP22884

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 MGS HMGP KDS AKCLHRGPQP SHWAAGDGPT QERCGPRSLG SPVLGLDTCR AWDHVDGQIL GQLRPLTEEE EEGAGATLS RGP AFGMGS EELRLASFYD WPLTAEVPPE LLAAAGFFHT GHQDKVRCFF CYGGLQSWKR GDDPWTEHAK WFPSCQFLLR SKGRDFVHSV QETHS QLLGS WDPWEEPEDA APVAPSVPAS GYPELTPRR EVQSESAQEP GARDVEAQLR RLQEERTCKV CLDRAVSIVF VPCGHLVCAE CAPGLQLCPI CRAPVRSRVR TFLS.		
Formulation	BIRC7 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 40% glycerol, 300mM NaCl and 1mM EDTA.		

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 isoforma protecting cells from apoptosis induced by staurosporine and isoform b 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 304 amino acids (1-280 a.a.) and having a molecular mass of 33.4kDa. BIRC7 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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