Active Recombinant Human Baculoviral IAP Repeat-Containing 2, AVI-tagged

Cat. No. BIRC2-3104H **Lot. No.** (See product label)

SPECIFICATION

Cat. No.	BIRC2-3104H
Product Overview	Recombinant Human BIRC2 (Glu 144-Leu 356) with a AVI tag at C-terminus and additonal two amino acids (Gly & Pro) at the N-terminus, was expressed in E.coli.
Description	Baculoviral IAP repeat-containing protein 2, also known as Inhibitor of apoptosis protein 2, HIAP2, c-IAP1, RING finger protein 48, and BIRC2, is a member of the IAP family. The inhibitor of apoptosis (IAP) proteins are a family of anti-apoptotic regulators found in viruses and metazoans. The UBA (ubiquitin-associated) domain of IAPs is located between the BIR (baculovirus IAP repeat) domains and the CARD (caspase activation and recruitment domain) or the RING (really interesting new gene) domain of c-IAP1 and c-IAP2 or XIAP (X-linked IAP) respectively. c-IAP1 contains three BIR repeats, one CARD domain and one RING-type zinc finger. c-IAP1 and c-IAP2 are recruited to tumor necrosis factor receptor 1 (TNFR1) associated complexes where they can regulate receptor-mediated signaling. Both c-IAP1 and c-IAP2 have been implicated in TNFalpha-stimulated NF-kappaB activation. Treatment of cells with IAP antagonists leads to proteasomal degradation of c-IAP1 and c-IAP2. Deletion or mutation of the UBA domain decreases this degradation, probably by diminishing the interaction of the c-IAPs with the proteasome. Ubiquitin binding may be an important mechanism for rapid turnover of auto-ubiquitinated c-IAP1 and c-IAP2.
Formulation	Lyophilized from sterile 10mM Tris, 5% glycerol, 0.5mM EDTA, 5mM DTT, pH 7.5

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Purity	> 92 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Bio-activity	Measured by its ability to inhibit DEVD-AFC cleavage activity in cell extracts activated by addition of cytochrome c and dATP.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N terminal	Gly
Molecular Mass	The recombinant human cIAP1 (Glu 144-Leu 356) consists of 230 amino acids and has a calculated molecular mass of 26.5 kDa as estimated by SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	BIRC2 baculoviral IAP repeat-containing 2 [Homo sapiens]
Synonyms	BIRC2; baculoviral IAP repeat-containing 2; IAP homolog B; IAP-2; NFR2-TRAF signalling complex protein; RING finger protein 48; TNFR2-TRAF-signaling complex protein 2; apoptosis inhibitor 1; baculoviral IAP repeat-containing protein 2; inhibitor of apoptosis protein 2; API1; MIHB; HIAP2; RNF48; cIAP1; Hiap-2; c-IAP1
Gene ID	329
mRNA Refseq	NM_001166

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Protein Refseq	NP_001157
MIM	601712
UniProt ID	Q13490
Chromosome Location	11q22
Pathway	Apoptosis; Focal adhesion; NOD-like receptor signaling pathway;Pathways in cancer; Small cell lung cancer; Ubiquitin mediated proteolysis; Apoptosis
Function	metal ion binding; protein N-terminus binding; protein binding; zinc ion binding

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