

Lot # XXXXX

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MATERIAL DATA SHEET

Livin β /KIAP, *human recombinant* Cat. # E3-300

Livin α and Livin β are two splice forms generated from the Baculoviral IAP repeat-containing protein 7 (BIRC7) gene. Livin is a member of the inhibitor of apoptosis protein (IAP) family that contains a single baculovirus IAP repeat (BIR) and a C-terminal RING finger domain. Livin exerts an anti-apoptotic activity by inhibiting caspase's 3, 7 and 9, and by its E3 ubiquitin-protein ligase activity. In vitro, Livin directly inhibits CASP3 and proteolytic activation of pro-caspase 9, and ubiquitinates recombinant DIABLO. Livin β is a splice variant that's 18 amino acids shorter in the BIR-RING linking region than the Livin α splice variant. This recombinant protein contains a C-terminal His6 tag.

Product Information

Quantity:	50 μ g
Stock:	X mg/ml (X μ M) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM DTT
MW:	32 kDa
Purity:	\geq 90% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue Stain.

Use & Storage

Use:	Recombinant Human Livin β is a Ubiquitin Ligase (E3) that functions downstream of a Ubiquitin-activating (E1) enzyme and a Ubiquitin-conjugating (E2) enzyme to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Ashhab, Y. <i>et al.</i> (2001) <u>FEBS</u> 495 : 56 Kasof, G.M. & Gomes B.C. (2001) <u>J. Biol. Chem.</u> 276 : 3238 Lin, J-H. <i>et al.</i> (2000) <u>Biochem. Biophys. Res. Comm.</u> 279 : 820 Ma, L. <i>et al.</i> (2006) <u>Cell Death Differ.</u> 13 : 2079 Vucic, D. <i>et al.</i> (2000) <u>Curr. Biol.</u> 10 : 1359
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