

Lot # XXXXX

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## MATERIAL DATA SHEET

### Livin $\alpha$ /BIRC7 isoform 2, human recombinant Cat. # E3-295

Livin  $\alpha$  and Livin  $\beta$  are two splice variants 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 domain. Livin exerts an anti-apoptotic activity by inhibiting caspase's 3, 7, and 9, and by its E3 Ubiquitin ligase activity. *In vitro*, Livin directly inhibits caspase 3 and proteolytic activation of pro-caspase 9, and ubiquitinates recombinant DIABLO. Livin  $\alpha$  is a splice variant that's 18 amino acids longer in the BIR-RING linking region than the Livin  $\beta$  splice variant. This recombinant protein contains a C-terminal 6-His tag.

#### Product Information

<b>Quantity:</b>	50 $\mu$ g
<b>Stock:</b>	X mg/ml (X $\mu$ M) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM DTT
<b>MW:</b>	34 kDa
<b>Purity:</b>	$\geq$ 90% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue Stain.

#### Use & Storage

<b>Use:</b>	Recombinant Human Livin $\alpha$ 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.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

#### Literature

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