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**MATERIAL DATA SHEET**

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**Recombinant Human His6 Livin  $\beta$ /KIAP****Cat. # E3-300**

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  $\beta$  is a splice variant that's 18 amino acids shorter in the BIR-RING linking region than the Livin  $\alpha$  splice variant.

**Product Information**

<b>Quantity:</b>	50 $\mu$ g
<b>MW:</b>	32 kDa
<b>Source:</b>	<i>E. coli</i> -derived Accession # Q96CA5-2 Contains a C-terminal 6-His tag.
<b>Stock:</b>	X mg/ml (X $\mu$ M) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM DTT
<b>Purity:</b>	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

**Use & Storage**

<b>Use:</b>	Recombinant Human Livin $\beta$ 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>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>• 12 months from date of receipt, -70 °C as supplied.</li><li>• 3 months, -70 °C under sterile conditions after opening.</li></ul>

## Literature

### References:

1. Ashab, Y. et al. (2001) FEBS **495**: 56
2. Kasof, G.M. & Gomes B.C. (2001) J. Biol. Chem. **276**: 3238
3. Lin, J-H. et al. (2000) Biochem. Biophys. Res. Comm. **279**: 820
4. Ma, L. et al. (2006) Cell Death Differ. **13**: 2079
5. Vucic, D. et al. (2000) Curr. Biol. **10**: 1359

*For research use only. Not for use in humans.*