

MATERIAL DATA SHEET

Recombinant Human His6 Livin α/KIAP

Cat. # E3-295

Livin α and Livin β 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 α is a splice variant that's 18 amino acids longer in the BIR-RING linking region than the Livin β splice variant.

Product Information

Quantity: 50 µg

MW: 34 kDa

Source: *E. coli*-derived human Livin protein
Accession # Q96CA5-1
Contains a C-terminal 6-His tag.

Stock: X mg/ml (X µM) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM DTT

Purity: >90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use: Recombinant Human Livin α is Ubiquitin (E3) ligase 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: **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -70 °C as supplied.
- 3 months, -70 °C under sterile conditions after opening.

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.