

Lot # XXXXX

MATERIAL DATA SHEET

cIAP-2, human recombinant

Cat. # E3-285

Cellular inhibitor of apoptosis protein 2 (cIAP-2, also known as BIRC3, API2, and HIAP-1) is a member of the inhibitor of apoptosis (IAP) family of proteins that inhibit the proteolytic activity of mature caspases. Structurally, cIAP-2 is comprised of 3 BIR (baculovirus inhibitor of apoptosis) domains, a RING finger domain, and a caspase recruitment domain (CARD). The ring finger domain of cIAP-2 functions as an E3 ubiquitin ligase to ubiquitinate specific targets such as RIPK1-4, CASP3, 7, and 8, TRAF1, and BCL10. cIAP-2 is an important regulator of innate immune signaling via regulation of Toll-like receptors, Nod-like receptors and RIG-I receptors, collectively known as pattern recognition receptors (PRRs).

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 500 mM NaCl, 10% Glycerol (v/v), 5 mM TCEP
MW:	71 kDa
Purity:	> 85% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.

Use & Storage

Use:	Recombinant Human cIAP-2/HIAP-1 is a RING finger 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. We recommend an initial cIAP-2 concentration of 0.2-1 µM.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Bertrand M.J. <i>et al.</i> (2011) <u>PLoS ONE</u> 6 : E22356 Mei Y. <i>et al.</i> (2011) <u>J. Biol. Chem.</u> 286 : 35380 Zhou A.Y. <i>et al.</i> (2013) <u>Cell Rep.</u> 3 : 724
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