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MATERIAL DATA SHEET

Recombinant Human His10 cIAP-1/HIAP-2
Cat. # E3-280

Cellular inhibitor of apoptosis protein 1 (cIAP-1, also known as BIRC2, MIHB, and HIAP2) is a member of the inhibitor of apoptosis (IAP) family of proteins that inhibit the proteolytic activity of mature caspases. Structurally, cIAP-1 is comprised of 3 BIR (baculovirus inhibitor of apoptosis) domains, a RING finger domain, and a caspase recruitment domain (CARD). Functionally, cIAP-1 inhibit caspases through the direct interaction of its BIR domain with the active caspase. The ring finger domain of cIAP-1 also functions as an E3 ubiquitin ligase to ubiquitinate specific target proteins. Caspase activity may be restored by mitochondrial proteins, such as SMAC/Diablo or HtrA2/Omi, through interactions with the Reaper-like motif and the BIR domain.

Product Information	
Quantity:	50 µg
MW:	72 kDa
Source:	*E. coli*-derived Contains an N-terminal 10-His tag Accession # Q13490
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 500 mM NaCl, 20% Glycerol (v/v), 5 mM TCEP, 0.5 mM EDTA
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage	
Use:	Recombinant Human cIAP-1/HIAP-2 is a RING finger Ubiquitin ligase (E3) that functions downstream of a Ubiquitinactivating (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-1 concentration of 0.2-1 µM.
Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 6 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

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Literature

References:

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2. Bertrand M.J, *et al.* (2011) PLoS ONE **6**: E22356
3. Kulathila R., *et al.* (2009) Acta Crystallogr. D **65**: 58
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