

MATERIAL DATA SHEET

Recombinant Human His10 cIAP-2/HiAP-1

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
MW:	71 kDa
Source:	<i>E. coli</i> -derived human cIAP-2/HiAP-1 protein Contains an N-terminal 10-His tag Accession # Q13489
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 500 mM NaCl, 10% (v/v) Glycerol, 5 mM TCEP
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 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-2 concentration of 0.2-1 µM.
Storage:	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Bertrand M.J. *et al.* (2011) PLoS ONE **6**: E22356
2. Mei Y. *et al.* (2011) J. Biol. Chem. **286**: 35380
3. Zhou A.Y. *et al.* (2013) Cell Rep. **3**: 724

For research use only. Not for use in humans.