Recombinant BIRC3 protein (His tag)

Catalog Number	538027
Synonyms	Apoptosis inhibitor 2; API2; Cellular inhibitor of apoptosis 2; C-IAP2; IAP homolog C; Inhibitor of apoptosis protein 1; hIAP-1; hIAP1; RING finger protein 49; RING-type E3 ubiquitin transferase BIRC3; TNFR2-TRAF-signaling complex protein 1
Species	Human
Expression System	E. coli
Accession	Q13489
Molecular Weight	Predictes a molecular mass of 27.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	376-604
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 376-604 aa (Q13489) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant BIRC3 (CARD domain) fragment, a high-purity protein encompassing amino acids 376-604 of human Baculoviral IAP repeat-containing protein 3. This fragment is expertly engineered to include the complete CARD domain (residues 439-529), offering researchers a precise tool to investigate domain-specific mechanisms in apoptosis regulation, inflammatory signaling, and ubiquitin transferase activity. BIRC3 is a multi-functional E3 ubiquitin-protein ligase (EC 2.3.2.27) that plays critical roles in regulating apoptosis, inflammatory signaling, immunity, and cell proliferation. It modulates both canonical and non-canonical NF-kappa-B pathways, ubiquitinates key signaling proteins including RIPK1, CASP8, and TRAF1, and protects cells from spontaneous ripoptosome formation. The full-length protein localizes to both the cytoplasm and nucleus, where it serves as an important regulator of pattern recognition receptors (TLRs, NLRs, and RLRs) in innate immune signaling. The provided fragment allows targeted study of the CARD domain's contribution to these complex regulatory functions.