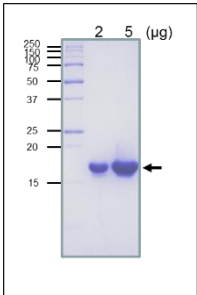


E. coli RuvC Protein, Functional

Product code	01-011 01-012
Size	20 µg 100 µg
Storage	-20°C -80°C (for longer storage) Avoid freeze-thaw cycles
Product Description	Recombinant <i>E. coli</i> full-size RuvC protein without tag.
Concentration	1.0 mg/ml (as determined by BCA method)
Buffer	50% glycerol, 10 mM Tris-HCl (pH7.5), 2 mM EDTA, 100 mM NaCl, 5 mM 2-mercaptoethanol
Purity	Over 95% by SDS-PAGE
Application	1. Functional studies in vitro. RuvC cleaves recombination intermediate at Holliday Junction. 2. Standard antigen for western blotting and ELISA. 3. SDS-PAGE
Activity	Unwinding duplex DNA, dependent on ATP. DNA-dependent ATPase (Ref.2).
Background	<i>E. coli</i> RuvC protein (19 kDa) is a structurally specific endonuclease which binds specifically to the Holliday structure, an intermediate of recombination, at the late stage of homologous recombination and recombination repair and introduces a nick in the symmetrical point of the Holliday junction cleaving and resolving the recombinant (1, 2).
Image	 <p>Figure SDS-PAGE analysis of the purified RuvC protein. 19 kDa</p>
Data Link	UniProtKB: P0A814 (RUV_C_ECOLI)
References	<p>This product was used in Ref. 2 and 3.</p> <ol style="list-style-type: none"> 1. Shinagawa H and Iwasaki H (1996) "Processing the holliday junction in homologous recombination." <i>Trend Biochem. Sci.</i> 21:107-111 PMID: 8882584 Review 2. Iwasaki H <i>et al.</i> (1991) "Escherichia coli RuvC protein is an endonuclease that resolves the Holliday structure." <i>EMBO J</i> 10:4381-4389 (1991) PMID: 1661673 Biochemistry 3. Murayama Y. <i>et al.</i> (2008) "Formation and branch migration of Holliday junctions mediated by eukaryotic recombinases." <i>Nature</i> 451:1018-1021 PMID: 18256600 Biochemistry
Related product	01-007 <i>E.coli</i> RuvA protein 01-009 <i>E.coli</i> RuvB protein 61-005 anti-RuvA antibody, rabbit polyclonal 61-007 anti-RuvB antibody, rabbit polyclonal 61-009 anti-RuvC antibody, rabbit polyclonal
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	