

***E. coli* RuvC Protein, functional**

01-011 20 µg, 01-012 100 µg

Storage: Sent at 4°C or at -20°C and store at -20°C or -80°C for longer period.

Product: Recombinant *E. coli* full-size RuvC protein without tag.

Applications:

- 1) Functional studies in vitro. RuvC cleaves recombination intermediate at Holliday Junction.
- 2) Standard antigen for western blotting and ELISA.
- 3) SDS-PAGE

Form: 50% glycerol, 10 mM Tris-HCl (pH7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol

Concentration: 1.0 mg/ml (determined by BCA method)

Background: *E. coli* 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).

Data Link UniProtKB/Swiss-Prot [P0A814](#) (RUVC_ECOLI)

References: This product was used in Ref. 2 and 3.

1. Shinagawa H and Iwasaki H (1996) "Processing the holliday junction in homologous recombination." *Trend Biochem Sci* **21**:107-111 PMID: [8882584](#)
2. Iwasaki H *et al* (1991) "Escherichia coli RuvC protein is an endonuclease that resolves the Holliday structure." *EMBO J* **10**:4381-4389 (1991) PMID: [1661673](#)
3. Murayama Y *et al* (2008) "Formation and branch migration of Holliday junctions mediated by eukaryotic recombinases." *Nature* **451**:1018-1021 PMID: [18256600](#)

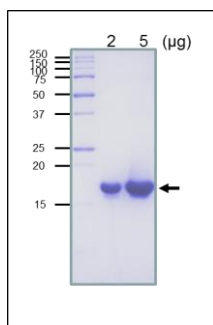


Figure. SDS-PAGE analysis of the purified RuvC protein. 19 kDa

Related Products:

[01-007](#) *E.coli* RuvA protein [01-009](#) *E.coli* RuvB protein [61-005](#) anti-RuvA antibody
[61-007](#) anti-RuvB antibody [61-009](#) anti-RuvC antibody