

## *E. coli* RuvC Protein

Cat #. 01-012 (100 µg)

### Description

*E. coli* RuvC protein 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).

The product is a recombinant protein abundantly expressed by *E. coli* and purified by methods such as chromatography (Fig. 1). Its molecular weight is 19 kD and forms a dimer in liquid and in binding state with the Holliday structure.

### Usage

- 1) Studies on homologous recombination mechanism.
- 2) To use as endonuclease which functions specifically to the Holliday structure.

### Specification

Purity: RuvC protein over 90% by SDS-PAGE (CBB staining)

Concentration: 13 mg/ml (determined by BCA method)

### Formulation

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

Storage: -20C

### Reference

1. Shinagawa H and Iwasaki H, Trend Biochem. Sci. 21:107 (1996)
2. Iwasaki H et al. EMBO J 10:4381 (1991)

**Fig. 1:** Polyacrylamide gel electrophoresis of RuvC protein.

