

E. coli RuvC Protein

01-011 20 µg

01-012 100 µg

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: 1.0 mg/ml (determined by BCA method)

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

Storage: -20°C

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

1. Shinagawa H and Iwasaki H, Trend Biochem. Sci. 21:107 (1996)
2. Iwasaki H et al. EMBO J 10:4381 (1991)
3. Murayama Y. et al. Nature 451:1018-1021 (2008)

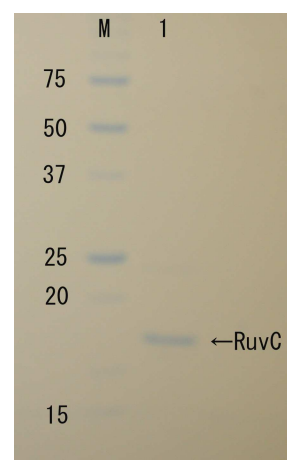


Fig. 1 Polyacrylamide gel electrophoresis of RuvC protein.

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