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℃

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)

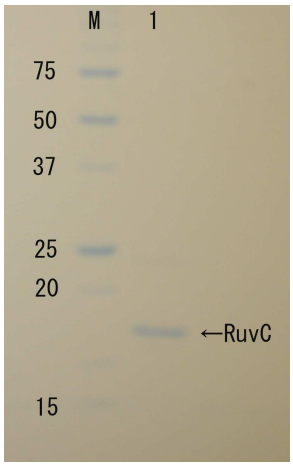

Fig. 1 Polyacrylamide gel electrophoresis of RuvC protein.

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