



# Recombinant Akkermansia muciniphila Crossover junction endodeoxyribonuclease RuvC (ruvC)

<b>Product Code</b>	CSB-EP453002AZF
<b>Relevance</b>	Nuclease that resolves Holliday junction intermediates in genetic recombination. Cleaves the cruciform structure in supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group.
<b>Abbreviation</b>	Recombinant Akkermansia muciniphila ruvC protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	B2UP63
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Akkermansia muciniphila (strain ATCC BAA-835 / Muc)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MRIL AIDPAIRNTGYAVVEGDYRRARALDYGTLSIPRSVSQSGCLLAIKQHLGNL IDKWNPDEMAVERIIYVQSHQTAITMGAAKAAVVIAAAEAGLRIMEYSPKSVKLS VVGRGAAQKTQVAFMVRALLELRETPESDAADALAIGLTHLFSADPLKAHMME RKYI
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Target Names</b>	ruvC
<b>Protein Names</b>	Holliday junction nuclease RuvC Holliday junction resolvase RuvC
<b>Expression Region</b>	1-167aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	23.2 kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Based on the SEQUEST from database of *E. coli* host and target protein, the LC-MS/MS Analysis result of CSB-EP453002AZF could indicate that this peptide derived from *E. coli*-expressed *Akkermansia muciniphila* (strain ATCC BAA-835 / Muc) *ruvC*.

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### Description

Explore the role of Crossover junction endodeoxyribonuclease RuvC with Recombinant *Akkermansia muciniphila* (strain ATCC BAA-835 / Muc) *ruvC* protein. This full-length protein, covering the 1-167aa expression region, is sourced from *E. coli*, facilitating cost-effective production. The N-terminal 10xHis-tag and C-terminal Myc-tag enable efficient purification and detection, respectively. With a purity of greater than 85% as determined by SDS-PAGE, the lyophilized recombinant *Akkermansia muciniphila* *ruvC* protein offers a valuable resource for researchers focusing on epigenetics and nuclear signaling in the context of this important gut microbiome species.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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