

RuvC Protein, E. coli, Recombinant (His & SUMO)

General Information

Synonyms:	Holliday junction resolvase RuvC;Crossover junction endodeoxyribonuclease RuvC;Holliday junction nuclease RuvC;Holliday junction endonuclease RuvC;ruvC
Protein Construction:	2-173 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P0A814
Molecular Weight:	34.6 kDa (predicted)
AA Sequence:	AIIIGIDPGRVTGYGVIRQVGRQLSYLGSGCIRTKVDDLPSRLKLIYAGVTEITQFQPDYFAIEQVFMKNADS ALKLGQARGVAIVA AVNQLPVFEYAARQVKQTVVIGISAEKSQVQHVMVRTLLKLPANPQADAADALAI AIT HCHVSQNAMQMSESRLNLARGRLR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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