



# Recombinant HCV type 1a core protein [His] (DAG1986)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Purity	≥95% as determined by SDS-PAGE
Conjugate	His
Applications	WB, ELISA
Molecular Weight	24 kDa
Reconstitution	Reconstitute the protein with 100 µL of deionized water
Format	Liquid or Lyophilized powder
Size	100 µg, 1 mg
Buffer	Lyophilized from PBS with 8M Urea
Preservative	None
Storage	Store at -20°C to -80°C

## BACKGROUND

Introduction	HCV core protein, derived from N-terminal 191 amino acids of the polyprotein, is the only HCV protein to directly interact with and encapsulate HCV genomic RNA and form nucleocapsids. The HCV core protein consists of three domains: the highly cationic domain 1, with approximately 117 amino acids, is the major domain to associate with HCV genomic RNA and to form nucleocapsids; the hydrophobic domain 2 is responsible for association with lipid droplets crucial for infectious virus particle production; the domain 3, also hydrophobic, is the endoplasmic reticulum (ER) anchoring domain. The majority of HCV core protein is found to
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locate at the ER, mitochondria, and lipid droplets in cytoplasm.

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**Keywords** Hepatitis C virus; HCV; Core protein

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## GENE INFORMATION

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**UniProt ID** AFS60313

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