



Recombinant HCV type 1b Active Nonstructural Protein 3 (DAG-P2189)

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

PRODUCT INFORMATION

Product Overview	Active hepatitis c virus Hepatitis Virus Genotype 1b NS3 protein fragment
Antigen Description	The polyprotein is processed by host cell and viral proteases into three major structural proteins including NS3, and several non-structural proteins necessary for viral replication. The NS3 part of the polyprotein displays three enzymatic activities: serine protease, NTPase and RNA helicase. The NS3 serine proteinase (NS3P) is a non-structural hepatitis C protein responsible for proteolytic processing of other non-structural proteins; because of this, it is also the most extensively studied protein of the Hepatitis C genome. It is responsible for proteolytic processing of the entire downstream region of the HC polyprotein, catalyzing cleavage at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a, and NS5a/NS5b sites to release the mature NS3, NS4a, NS4b, NS5a, and NS5b proteins. For proper function, NS3 requires NS4a as a cofactor, but, interestingly enough, NS3 also cleaves the NS4a protein.
Species	HCV
Conjugate	Unconjugated
Applications	FuncS
Molecular Weight	23 kDa
Bio-activity	One unit of protease hydrolyzes 1 picomole of Ac-Asp-Glu-Dap(QXL?520)- Glu-Glu-Abu-COO-Ala -Ser-Cys(5-FAMsp)-NH2 per minute at pH 7.5 at 25° C. Active hepatitis c virus Hepatitis Virus Genotype 1b NS3 protein fragment is in active form and the pre-activat
Format	Liquid
Buffer	pH: 8.00 Constituents: 0.75% Potassium chloride, 0.02% DTT, 0.32% Tris HCl, 0.006% EDTA, 20% Glycerol

Preservative	None
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze/thaw cycles.

BACKGROUND

Introduction	Hepatitis C Virus is a positive, single stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral protease
Keywords	Hepatitis Virus Genotype 1b NS3; HCV Genotype 1b NS3