Recombinant HCV NS5B Protein, Full Length, C-6×His tagged

Cat. No. NS5B-65HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E. coli derived recombinant protein contains the full length of the NS5B immunodominant regions Genotype 1B and fused to a 6×His tag at C-Terminus. Immunoreactive with sera of HCV-infected individuals.
Species	HCV
Source	E.coli
ProteinLength	Full Length
Description	HCV is a small 50nm, enveloped, single-stranded, positive sense RNAvirus in the family Flaviviridae. HCV has a high rate of replication with approximately one trillion particles produced each day in an infected individual. Due to lack of proofreading by the HCV RNA polymerase, the HCV has an exceptionally high mutation rate, a factor that may help it elude the host's immune response. Hepatitis C virus is classified into six genotypes(1-6) with several subtypes within each genotype. The preponderance and distribution of HCV genotypes varies globally. Genotype is clinically important in determining potential response to interferon-based therapy and the required duration of such therapy. Genotypes 1 and 4 are less responsive to interferon-based treatment than are the other genotypes (2, 3, 5 and 6).
Purity	Protein is > 95% pure as determined by SDS-PAGE
Applications	HCV NS5B antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.

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Stability	HCV NS5B although stable at 4 centigrade for 1 week, should be stored below -18 centigrade. Please prevent freeze thaw cycles.
Storage Buffer	1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X and 50% Glycerol.
Shipping	Ice packs

GENE INFORMATION

Official Symbol	NS5B
Synonyms	NS5B; POLY; polyprotein;protein F; core protein; envelope protein E1; envelope protein E2; protein p7; nonstructural protein NS2; protease/helicase protein NS3; nonstructural protein NS4A; nonstructural protein NS4B; nonstructural protein NS5A; RNA-dependent RNA polymerase NS5B; -2/+1 frameshift; although the exact location of the frameshift is unknown, it was mapped to codons 9 to 11 of the core protein coding sequence

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