

Recombinant Hepatitis C Virus NS5B Protein, N-His-tagged

Cat. No. NS5B-18V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Hepatitis C Virus NS5B produced in E. coli is a single polypeptide chain containing 155 amino acids (aa 2634-2752) and having a molecular mass of 17kDa (NCBI Accession # NP_671491). Recombinant HCV NS5B is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Species	HCV
Source	E.coli
ProteinLength	2634-2752 aa
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).
Form	The HCV NS5B protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	17 kDa
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSPMGF SYDTRCFDST VTESDIRTEE AIYQCCDLDP QARVAIKSLT ERLYVGGPLT NSRGENCGR RCRASGVLT SCGNTLTCTYI KARAACRAAG LQDCTMLVCG DDLVICESA GVQED.
Purity	Greater than 90% as determined by SDS-PAGE.
Notes	ProSpec's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Use/Stability	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
GENE INFORMATION	
Gene Name	POLY polyprotein;protein F [Hepatitis C virus genotype 1]
Official Symbol	POLY
Synonyms	NS5B; polyprotein; protein F; POLY
Gene ID	951475
Protein Refseq	NP_671491.1

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