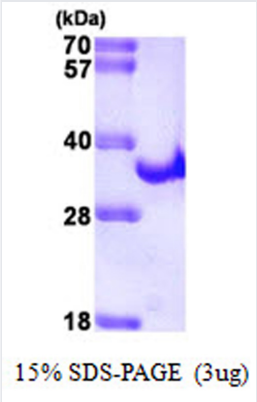
HCV NS3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	HCV NS3, Recombinant Protein
Full Product Name	HCV NS3, 1225-1456aa, HCV, His tag, E Coli
Product Gene Name	HCV NS3 recombinant protein
Product Synonym Names	NS3 protease/helicase; NS3 protease/helicase HCV NS3 transactivated protein; NS 3; NS3P; P70; Serine protease/NTPase/helicase.
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSVAHL HAPTGSGKST KVPAAYAAQG YKVLVLNPSV AATLGFGAYM SKAHGVDPNI RTGVRTITTG SPITYSTYGK FLADGGCSGG AYDIIICDEC HSTDATSILG IGTVLDQAET AGARLVVLAT ATPPGSVTVS HPNIEEVALS TTGEIPFYGK AIPLEVIKGG RHLIFCHSKK KCDELAAKLV ALGINAVAYY RGLDVSVIPT SGDVVVVSTD ALMTGFTGDF DSVIDCNT
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol, 1mM DTT
Purity/Purification	> 95% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	27.9 kDa (268aa), confirmed by MALDI-TOF.
Antigen Species	HCV
Tag Information	His-tag
Product Categories/Family for HCV NS3 recombinant protein	Virus
Applications Tested/Suitable for HCV NS3 recombinant protein	SDS-PAGE
Related Product Information for HCV NS3 recombinant protein	HCV is a positive, single-stranded RNA virus in the Flaviviridae family. 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. Nonstructural (NS) proteins of HCV play major roles in viral replication and the pathogenesis of liver diseases. The NS3 protein of hepatitis C virus (HCV) contains protease and RNA helicase activities, both of which are likely to be essential for HCV propagation. Recombinant HCV NS3 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for HCV NS3 recombinant protein	Hahn JA., et al. (2007) J Infect Dis. 195 (11):1556-9. ; Caruntu FA., et al. (2006) J Gastrointestin Live Dis. 15 (3):249-56.;
Other Notes	Small volumes of HCV NS3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HCV NS3 purchase	MBS203743 is a recombinant protein targeting HCV NS3. Also known as HCV NS3, 1225-1456aa, HCV, His tag, E Coli. Host: E Coli.



SDS-Page of HCV NS3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HCV NS3. It may not necessarily be applicable to this product.

NCBI GI #	22129793
NCBI GeneID	951475
NCBI Accession #	NP_671491
UniProt Related Accession #	AAB66324
GenBank Nucleotide #	NC_004102.1
NCBI Official Full Name	polyprotein
NCBI Official Symbol	HCVgp1
NCBI Protein Information	polyprotein; core protein; E1 protein; E2 protein; p7 protein; NS2 protein; NS3 protease/helicase; NS4A protein; NS4B protein; NS5A protein; NS5B RNA-dependent RNA polymerase
Research Articles on HCV NS3	**1.** K308 of NS5A is indispensable for both RNA and NS5B binding, whereas W316 is essential for protein-protein interactions with CypA and NS5B.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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