

Recombinant HCV NS3 protein

Catalog Number: ATGP0519

PRODUCT INFORMATION

Expression system

E.coli

Domain

1225-1456aa

UniProt No.

N/A

NCBI Accession No.

NP_671491

Alternative Names

NS3 protease/helicase, NS3 protease/helicase HCV NS3 transactivated protein, NS 3, NS3P, P70, Serine protease/NTPase/helicase.

PRODUCT SPECIFICATION

Molecular Weight

27.9 kDa (268aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGGQQ MGRDLYDDDD KDRWGS>VAHL HAPTGSGKST KVPAAYAAQG YKVLVLNPSV
AATLGFGAYM SKAHGVDPNI RTGVRTITTG SPITYSTYGK FLADGGCSGG AYDIIICDEC HSTDATSILG IGTVLDQAET
AGARLVVLT ATPPGSVTVS HPNIEEVALS TTGEIPFYGK AIPLEVIKGG RHLIFCHSKK KCDELAALKV ALGINAVAYY
RGLDVSVIPT SGDVVVVSTD ALMTGFTGDF DSVIDCNT

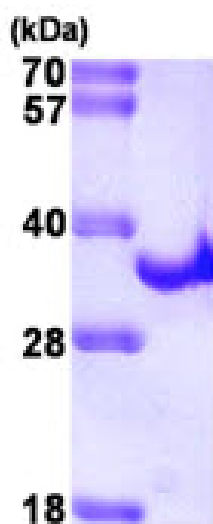
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)