

AR51496PU-N

HCV NS5B (2634-2752, His-tag) - Purified

Alternate names:

Hepatitis C Virus, RNA-directed RNA polymerase NS5B

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

Hepatitis C virus genotype 1 is a core protein packages viral RNA to form a viral nucleocapsid, and promotes virion budding. It modulates viral translation initiation by interacting with HCV IRES and 40S ribosomal subunit and also regulates many host cellular functions such as signaling pathways and apoptosis. It prevents the establishment of cellular antiviral state by blocking the interferon-alpha/beta (IFN-alpha/beta) and IFN-gamma signaling pathways and by inducing human STAT1 degradation. NS5B is a RNA-dependent RNA polymerase that plays an essential role in the virus replication.

NCBI:

[NP_671491](#)

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant HCV (Hepatitis C Virus) NS5b protein, fused to *His-tag* at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSPMGF SYDTRCFDST VTESDIRTEE
AIYQCCDLDP QARVAIKSLT ERLYVGGLPT NSRGENCGR RCRASGVLTT SCGNTLTCTYI
KARAACRAAG LQDCTMLVCG DDLVVICESA GVQED

Molecular weight: 17.0 kDa (155aa) confirmed by MALDI-TOF

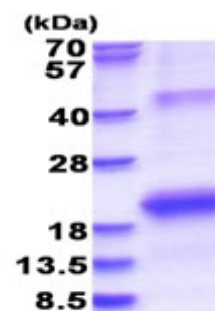
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Taylor DR, Tian B, Romano PR, Hinnebusch AG, Lai MM, Mathews MB. Hepatitis C virus envelope protein E2 does not inhibit PKR by simple competition with autophosphorylation sites in the RNA-binding domain. *J Virol.* 2001 Feb;75(3):1265-73. PubMed PMID: 11152499.
2. Kalliampakou K.I., et al. (2015) *J. Gen. Virol.* 86:1015-1025

Pictures:



15% SDS-PAGE (3ug)