OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AR51496PU-S HCV NS5B (2634-2752, His-tag) - Purified

Alternate names: Hepatitis C Virus, RNA-directed RNA polymerase NS5B

Quantity: 50 µg

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

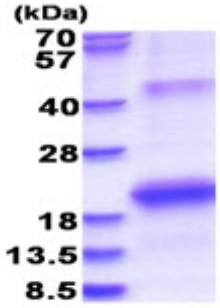
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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 ERLYVGGPLT NSRGENCGYR RCRASGVLTT SCGNTLTCYI
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)