Recombinant Hepatitis C virus genotype 1b NS5A Protein (G2005-M2174), His-tagged

Cat. No. NS5A-1531H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Hepatitis C virus genotype 1b 6His-TEV-(G)-NS5A(G2005-M2174) protein with a His tag was expressed in E. coli
Species	Hepatitis C virus genotype 1b
Source	E.coli
ProteinLength	G2005-M2174
Description	Mature core protein Packages viral RNA to form a viral nucleocapsid, and promotes virion budding (Probable). Participates in the viral particle production as a result of its interaction with the non-structural protein 5A. Binds RNA and may function as a RNA chaperone to induce the RNA structural rearrangements taking place during virus replication. Modulates viral translation initiation by interacting with viral IRES and 40S ribosomal subunit. Affects various cell signaling pathways, host immunity and lipid metabolism (Probable). Prevents the establishment of cellular antiviral state by blocking the interferon-alpha/beta (IFN-alpha/beta) and IFN-gamma signaling pathways and by blocking the formation of phosphorylated STAT1 and promoting ubiquitin-mediated proteasome-dependent degradation of STAT1. Activates STAT3 leading to cellular transformation. Regulates the activity of cellular genes, including c-myc and c-fos. May repress the promoter of p53, and sequester CREB3 and SP110 isoform 3/Sp110b in the cytoplasm. Represses cell cycle negative regulating factor CDKN1A, thereby interrupting an important check point of normal cell cycle

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

	regulation. Targets transcription factors involved in the regulation of inflammatory responses and in the immune response: suppresses NF-kappa-B activation, and activates AP-1. Binds to dendritic cells (DCs) via C1QR1, resulting in down-regulation of T-lymphocytes proliferation. Alters lipid metabolism by interacting with hepatocellular proteins involved in lipid accumulation and storage. Induces up-regulation of FAS promoter activity, and thereby contributes to the increased triglyceride accumulation in hepatocytes (steatosis).
Form	Liquid
Endotoxin	< 0.01 EU/μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Official Symbol	Genome polyprotein
Synonyms	Genome polyprotein
UniProt ID	Q9WMX2

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