
Product Data Sheet

Product Name: HCV NS5A
 Cat. No.: GP25304
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSLKATCTAN HDSPDAELIE ANLLWRQEMG GNITRVESEN KVVILDSFDP LVAEEDEREV SVPAEILRKS RRFARALPVW ARPDYNPPLV ETWKKPDY.		
Formulation	The HCV NS5A protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 1mM DTT.		

Introduction

NS5A is a component of the replication complex which takes part in RNA-binding. NS5A protein's hyperphosphorylated form is an inhibitor of viral replication. NS5A interacts with Human VAPB and through it targets the viral replication complex to vesicles. NS5A down-regulates viral IRES translation initiation and mediates interferon resistance by interacting and inhibiting human EIF2AK2/PKR. NS5a is also inhibits apoptosis by interacting with BIN1 and FKBP8.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant HCV NS5A produced in E. coli is a single polypeptide chain containing 118 amino acids (aa 2210-2306) and having a molecular mass of 13.4kDa. Recombinant HCV NS5A is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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