

NS3 protease Protein, HCV (GST)

Cat. No.:	HY-P74898
Synonyms:	Hepatitis C virus (HCV-1a) NS3 protease / helicase immunodominant region Protein (GST)
Species:	Virus
Source:	E. coli
Accession:	NP_803144 (T1356-T1459)
Gene ID:	/
Molecular Weight:	Approximately 37.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 500 mM NaCl. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Non-structural protein 3 (NS3), also known as p-70, is the cleavage product of hepatitis C virus polyprotein 70 kDa. It is a zinc-dependent serine protease. Two-thirds of the C-terminal also acts as helicase and nucleoside triphosphatase. NS3 protein induces Caspase-8-mediated apoptosis independently of its protease or helicase activity. NS3 needs to bind to the viral protein NS4A to enable additional conformation changes that enhance activity and appropriate intracellular localization ^{[1][2][3][4]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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