Recombinant HCV NS3/4A protease Protein, Tag Free

Cat. No. NS3/4A-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant HCV NS3/4A protease (genotype 1b, strain: HC-J4; NCBI Accession: AF054247) was expressed in E. coli. HCV NS3/4A protease is a 217 amino acid fusion protein (22.7 kDa) with NS4A co-factor fused to the N-terminus of NS3 protease domain. Therefore, HCV NS3/4A protease is in active form and the pre-activation by pep4A or pep4AK is not necessary.
Species	HCV-1B
Source	E.coli
Description	NS3 protease of hepatitis C virus (HCV), located on the N-terminal domain of HCV NS3, is responsible for the cleavage at the NS3/NS4A, NS4A/NS4B, NS4B/NS5A, and NS5A/NS5B sites of the nonstructural protein. The HCV NS3 is a chymotrypsin-like serine protease. It requires a cofactor, a 54 amino acid NS4 protein, to reach its optimal activity. The X-ray crystal structure studies show that NS3 forms a tight non-covalent complex with NS4. The NS3/4A protease is essential for viral replication and the formation of infectious viral particles, and thus has been considered as one of the most attractive targets for anti-HCV therapy.
Tag	Non
Form	Solution
Molecular Mass	22.7 kDa

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

Purity	≥95% by SDS-PAGE
Applications	FRET; Protease activity
Usage	Research use
Unit Definition	One unit of protease hydrolyzes 1 picomole of 5-FAM/QXL FRET substrate per minute at pH 7.5 at 25 centigrade.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	20 mM Tris-HCl, pH 8.0, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.

GENE INFORMATION

Official Symbol	NS3/4A
Synonyms	NS3/4A; NS3; NS4A; HCV NS3; HCV NS4A; HCV; Hepatitis C Virus

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