Native HIV1 PR Protein

Cat. No. PR-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native HIV1 Protease Protein
Species	HIV
Source	E.coli
ProteinLength	99
Description	Retroviral protease from HIV-1 virus is an enzyme important in the life cycle of the virus. It is expressed in the infected cells as a part of Gag-Pol polyprotein from which it is autocatalytycaly released after formation of immature viral particle. The enzyme subsequently cleaves the other parts of viral polyproteins causing the maturation of the virus. In HIV-infected patients the enzyme is a subject of intensive mutagenesis and mutants resistant to applied medcines are produced as a consequence of the seletion pressure. HIV-1 protease is active as a homodimer.
Molecular Mass	10.8 kDa (monomer), protein active as dimer
AA Sequence	PQITLWQRPLVTIKIGGQLKEALLDTGADDTVLEEMNLPGRWKPKMIGGIGGFIKVRQ YDQILIEICGHKAIGTVLVGPTPVNIIGRNLLTQIGCTLNF
Purity	>95%
Applications	Kinetic studies, Inhibitor screening, Crystallography

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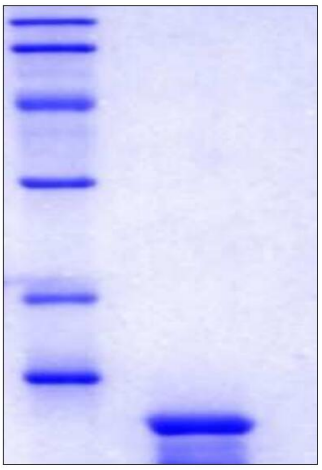
Quality Control Test	SDS PAGE to determine purity of the protein. Active site titration by tightly binding inhibitor.
Storage	Store protein at –80 centigrade. Protein remains stable until the expiry date when stored at –80 centigrade. Avoid repeated freezing/thawing cycles.
Storage Buffer	20 mM sodium acetate, 200 mM NaCl, 10% glycerol, 0.05% 2-mercaptoethanol, 1 mM EDTA, pH 5.0
Reconstitution	Defrost at ambient temperature.
Shipping	On ice

GENE INFORMATION

Official Symbol	PR
Synonyms	PR; protease; HIV-1 protease; Human immunodeficiency virus protease; PR; Retropepsin

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14% SDS-PAGE separation of Human HIV-1 Protease



1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 2.5 µg/lane

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