

Recombinant HIV-1 protease protein

Cat. No. HIV1P-01 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-1 protease was expressed in E. coli.
Species	HIV
Source	E.coli
Description	HIV-1 protease is very significant in the life cycle of the HIV virus. It is expressed in the infected cells as a part of Gag-Pol polyprotein from which it is auto-catalytically released after formation of an immature viral particle. The enzyme subsequently cleaves the other parts of viral polyproteins resulting in the maturation of the virus. In HIV-infected patients the enzyme is subjected to intensive mutagenesis and mutants resistant to applied medicines are produced as a result of the selection pressure.
Form	The HIV-1 Protease filtered (0.4µm) solution (0.27mg/1ml) is formulated in 20mM Tris, 20mM MES, 200mM NaCl, 1mM EDTA, 10% (v/v) glycerol and 0.05% 2-mercaptoethanol, pH 6.5.
Molecular Mass	HIV-1 protease is an active homodimer having a molecular mass of 21.6kDa (each monomer of 99 amino acids is 10.8kDa).
AA Sequence	PQITLWQRPL VTIKIGGQLK EALLDTGADD TVLEEMNLPG RWKPKMIGGI GGFIKVRQYD QILIEICGHK AIGTVLVGPT PVNIIGRNLL TQIGCTLNF
Purity	Greater than 95% as determined by densitometric image analysis.

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Storage

Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time.
Please avoid freeze thaw cycles.

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