

## HIV-1 Protease

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**Description:** HIV-1 protease is an active homodimer having a molecular mass of 21.6kDa (each monomer of 99 amino acids is 10.8kDa).

**Catalog #:** HIPS-008

**Source:** Escherichia Coli.

For research use only.

**Physical Appearance:** Sterile filtered colorless clear solution.

**Formulation:**

The HIV-1 Protease solution (0.25mg/1ml) is formulated in 20mM acetate, 200mM NaCl, 1mM EDTA, 0.5mM DTT, pH5.0 and 10% glycerol.

**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. Please avoid freeze thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

**Storage:**

20mM HEPES, pH7.0 and 10% Glycerol.

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